



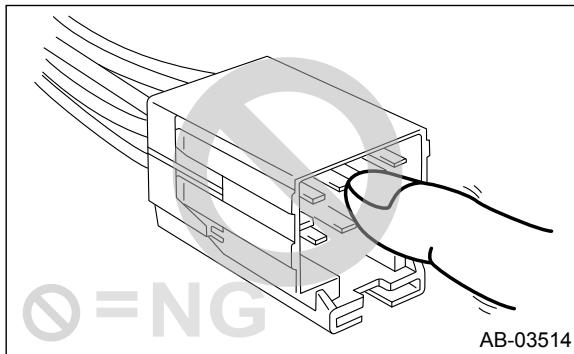


1. General Description
2. Airbag Connector
3. Inspection Locations after a Collision
4. Driver's Airbag Module
5. Knee Airbag Module
6. Passenger's Airbag Module
7. Side Airbag Module
8. Curtain Airbag Module
9. Airbag Control Module
10. Impact Sensor
11. Roll Connector
12. Airbag Module Disposal (Deployment Processing on Vehicle)

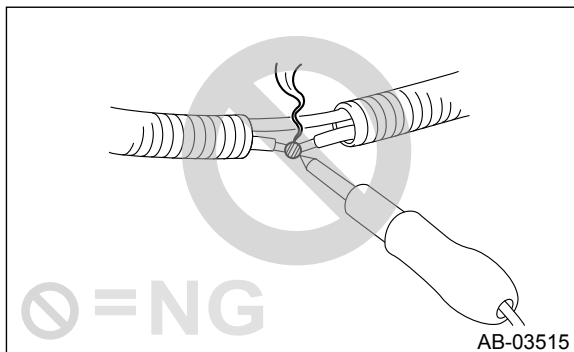
### CAUTION

#### 1. BEFORE STARTING ALL WORKS

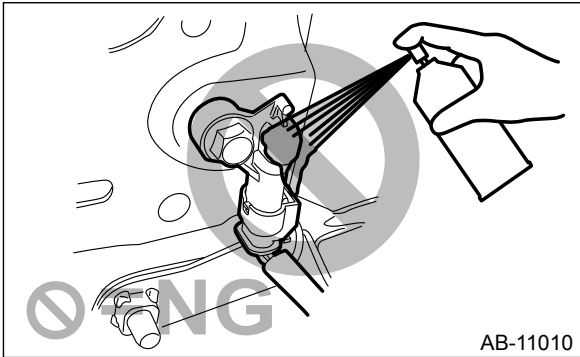
- When performing service operation, refer to "Repair Contents" in "General Description".  [Ref. to REPAIR CONTENTS>Repair Contents.](#)
- When performing work on the sensors or modules, be careful of the following.
  - Before disconnecting electrical connectors, be sure to disconnect the ground terminal from the battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
  - Do not apply any impact. If the parts are accidentally dropped, replace with a new part.
  - Do not expose to high-temperature and humidity.
- The airbag system (including pretensioner) is fitted with a backup power supply. After disconnecting the ground terminal from the battery sensor, the airbag may operate if you do not wait for 60 seconds or more before starting the service of airbag system.
- When performing an operation with the airbag system parts including pretensioners exposed, do not apply any impact to airbag modules and impact sensors.
- If the airbag warning light illuminates, check or repair the vehicle immediately to prevent it from airbag system malfunction.
- For the operation that is required to use special tools, always follow the instructions.
- Do not allow water or oil to come in contact with the connector terminals. Also, do not touch the connector terminals directly.



- If damage, open circuit or rust is found on airbag system wiring harness, do not repair the harness. Always replace the faulty harness with a new genuine part.



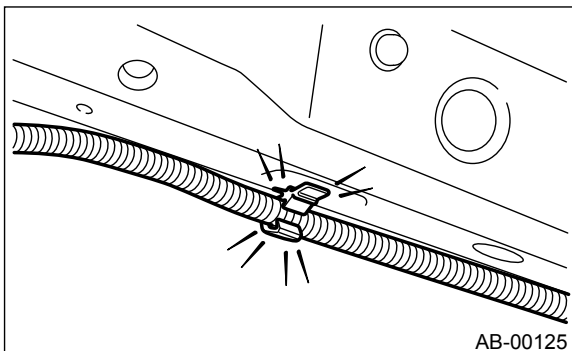
- When painting or performing sheet metal work on the vehicle, remove the following parts. Performing the work without removing the parts may cause secondary malfunction.




- Front part of the vehicle including the front wheel apron, front fender and radiator panel side
  - Front impact sensor
  - Wiring harness
- Side or its vicinity of the vehicle including the side sill, center pillar, front doors and rear fender
  - Side impact sensor (front door)
  - Side impact sensor (center pillar)
  - Side impact sensor (rear wheel house)
  - Wiring harness
- When attaching the steering wheel assembly and steering roll connector, be sure to adjust the steering roll connector.

## 2. BEFORE STARTING PARTS REPLACEMENT

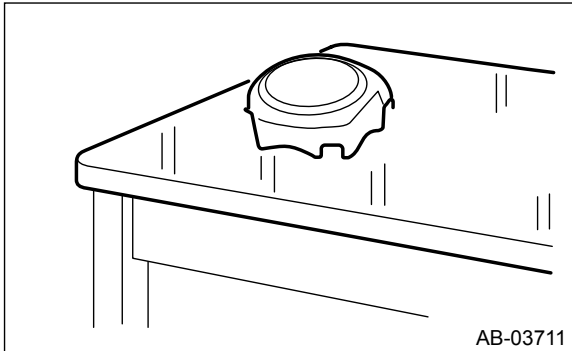
- If the following parts are deformed or damaged, replace them with new parts.
  - Impact sensors and brackets
  - Airbag modules and brackets
  - Airbag control module
  - Pretensioners and brackets
  - Harnesses
- Install the wiring harness securely with the specified clips to avoid interference or tangled with other parts.



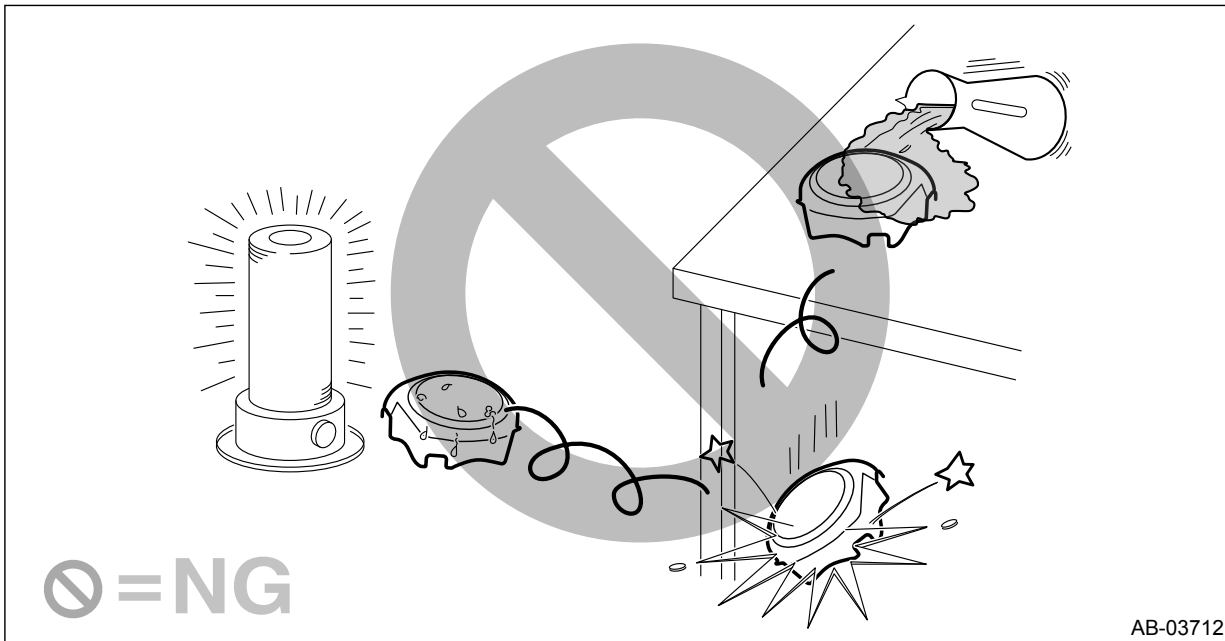
- Do not use the airbag or pretensioner parts from other vehicles. Always replace the defective parts with new parts.
- Never reuse any activated airbag module and pretensioner.
- Do not discard undeployed airbag module or pretensioner. For the disposal procedures, refer to "Airbag Module Disposal".
- For parts which are not reusable, always use new parts.  [Ref. to AIRBAG SYSTEM>General](#)

[Description>COMPONENT.](#)

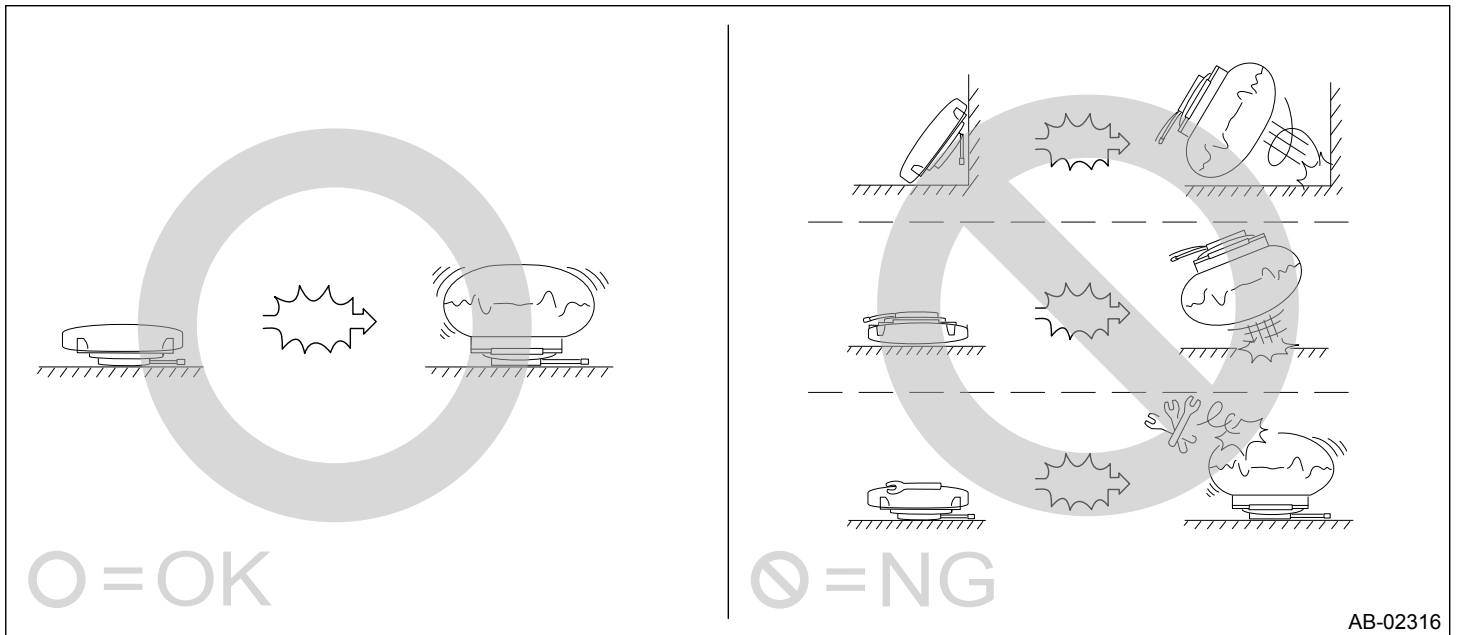
- When attaching the steering wheel assembly and steering roll connector, be sure to adjust the steering roll connector.
- After removing each part of the airbag system, keep them with the pad side facing upward on a dry, clean and flat surface away from heat, light sources, moisture and dust.



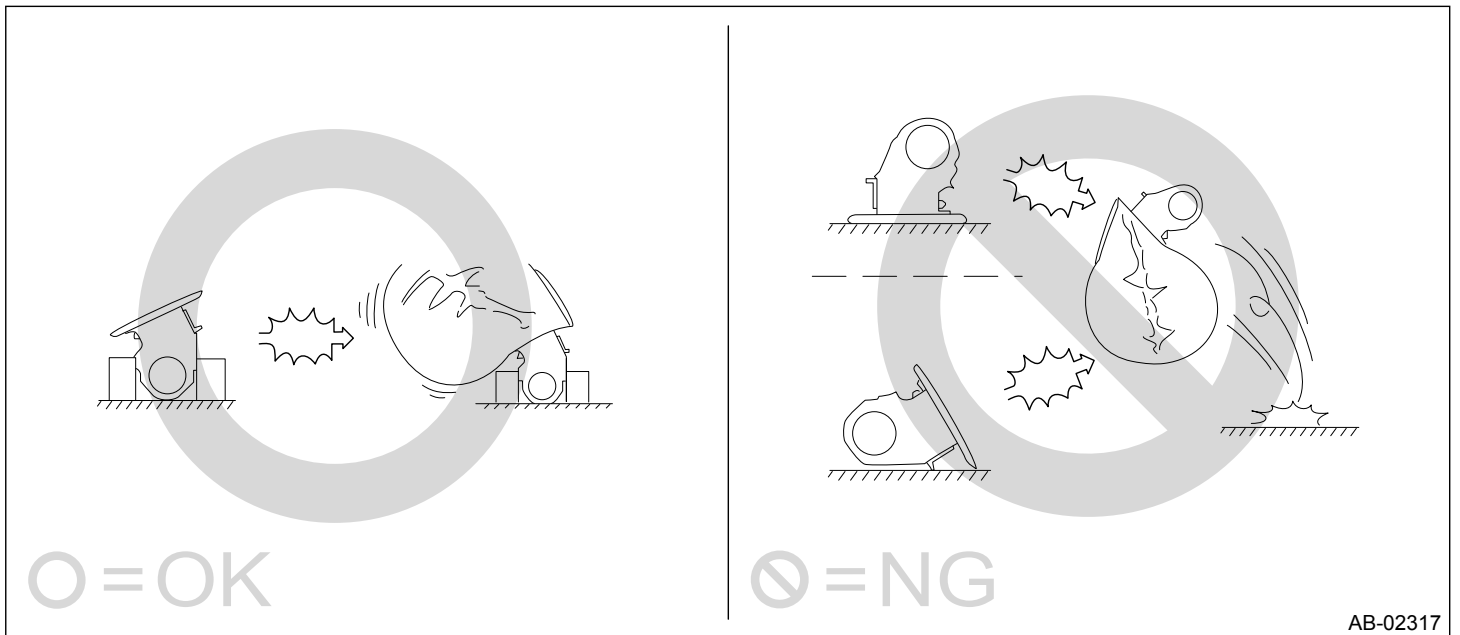
- Observe the following; the airbag system component or the internal parts of seat belt pretensioner may be damaged or the reliability may be greatly lowered.
  - Do not drop or otherwise apply impact.
  - Do not store it under high temperature environment at 85°C (185°F) or more, or do not near it to open flames.
  - Do not allow water, oil or grease to come in contact.



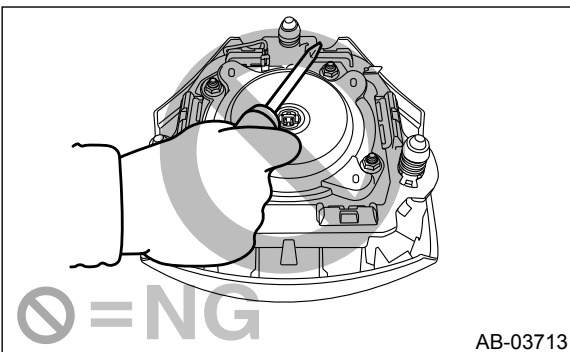
- When storing a removed airbag module, observe the following items. If the pad of the airbag module is in contact with other objects, it may cause a serious accident if the airbag accidentally operates.
  - Do not lean the airbag module up against something.
  - Do not place the airbag module with the pad side facing downward.
  - Do not place any objects on the airbag module.
  - Do not pile up the airbag module.
- Driver's airbag module



- Passenger's airbag module and side airbag module



- Do not disassemble the airbag modules and pretensioners.

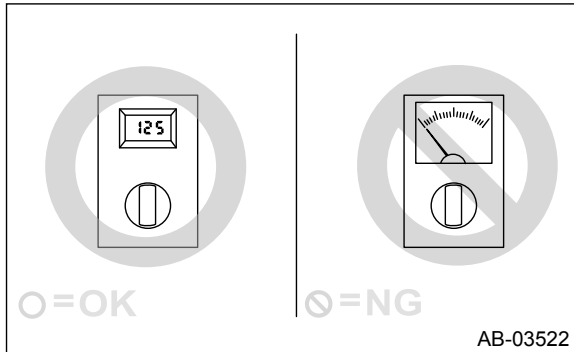


- The removed front seat with airbag module must be kept at least 200 mm (8 in) away from walls and

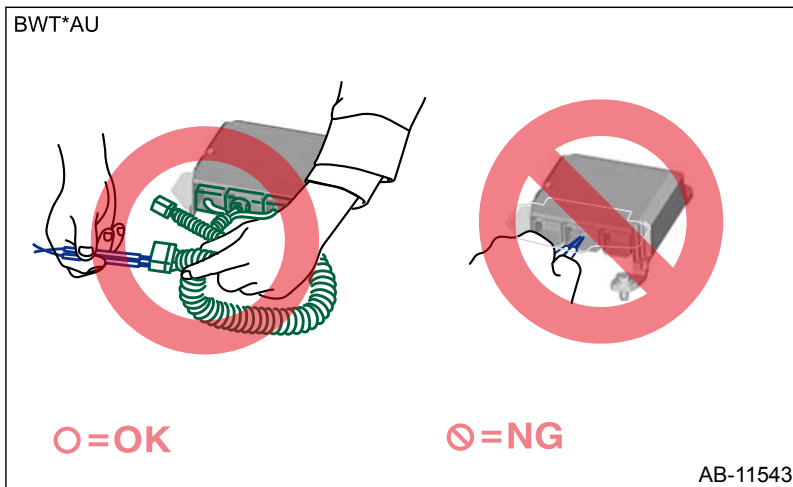
other objects.

### 3. BEFORE STARTING TROUBLESHOOTING

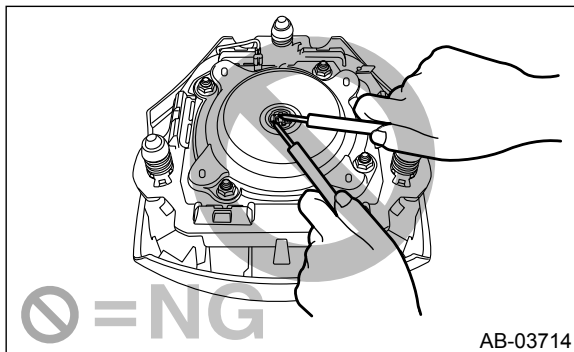
- Even if any part must be replaced as the result of troubleshooting, do not use an airbag part or pretensioner part from other vehicles. Always replace the defective parts with new parts.
- When checking the airbag system, be sure to use a digital circuit tester. Use of an analog circuit tester may cause the airbag to activate erroneously due to a minimal current inside tester.



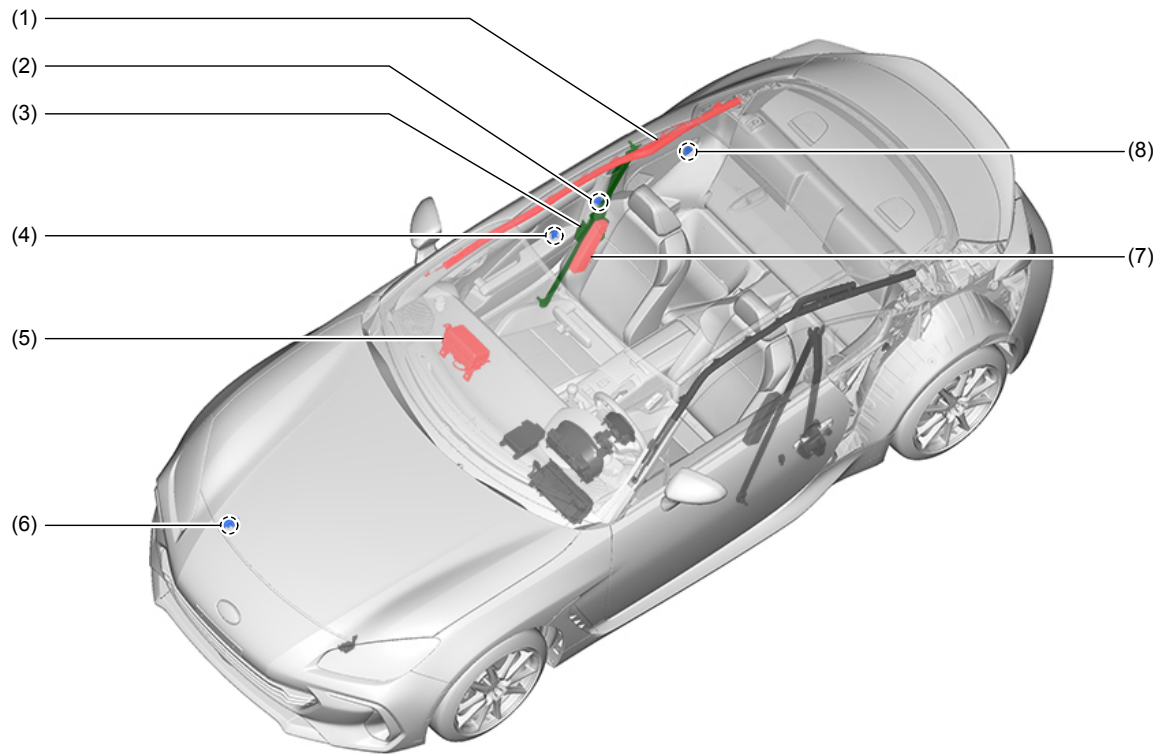
- For the operation that is required to use special tools, always follow the instructions.
- When checking, use a test harness. Damage to connector terminal causes malfunction. Do not directly put the tester probe on airbag connector terminal.



- Do not check the continuity of airbag modules and pretensioners.



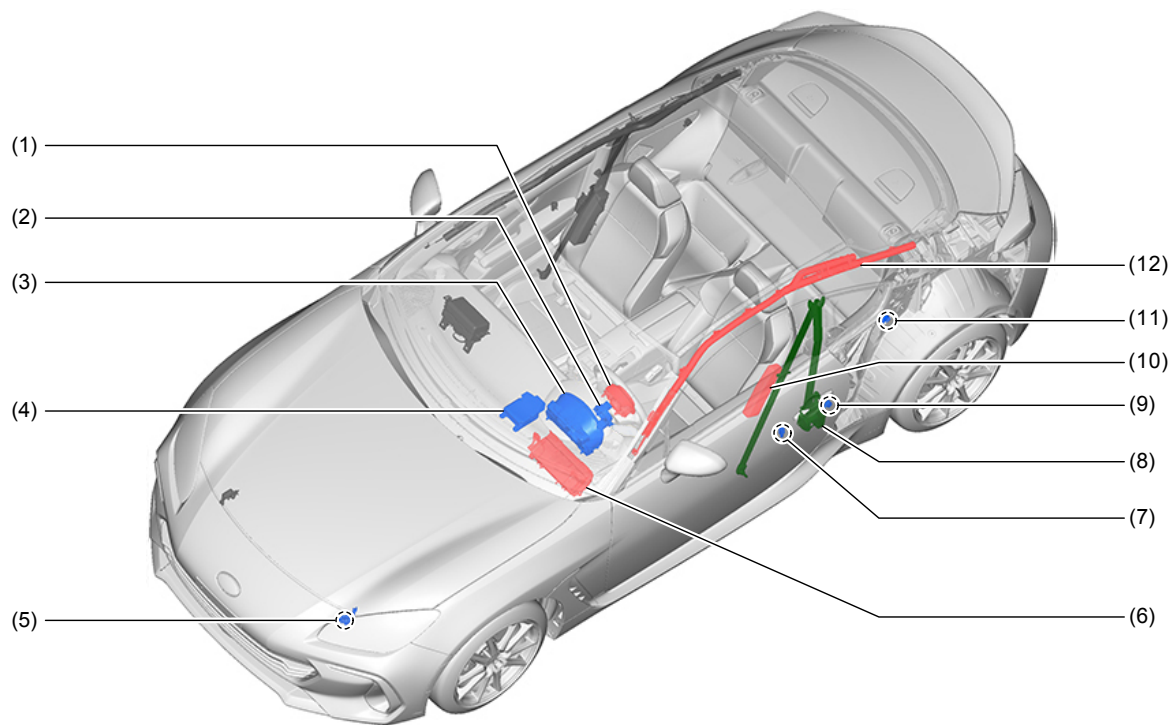
## LOCATION



AB-11939

- |   |  |  |
|---|--|--|
| (1) Curtain airbag module RH                                    | (4) Side impact sensor RH (front door) | (7) Side airbag module RH                    |
| (2) Side impact sensor RH (center pillar)                       | (5) Passenger's airbag module          | (8) Side impact sensor RH (rear wheel house) |
| (3) Front seat belt pretensioner RH & adaptive force limiter RH | (6) Front impact sensor RH             |  |






AB-11940

- |   |   |   |
|---|---|---|
| (1) Driver's airbag module                      | (6) Knee airbag module                    | (11) Side impact sensor LH (rear wheel house) |
| (2) Steering roll connector                     | (7) Side impact sensor LH (front door)    | (12) Curtain airbag module LH                 |
| (3) Airbag warning light (in combination meter) | (8) Front seat belt pretensioner LH       |   |
| (4) Airbag control module                       | (9) Side impact sensor LH (center pillar) |   |
| (5) Front impact sensor LH                      | (10) Side airbag module LH                |   |

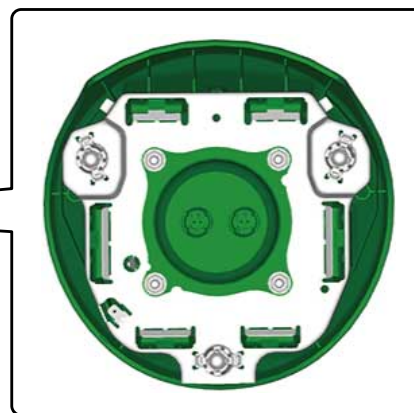
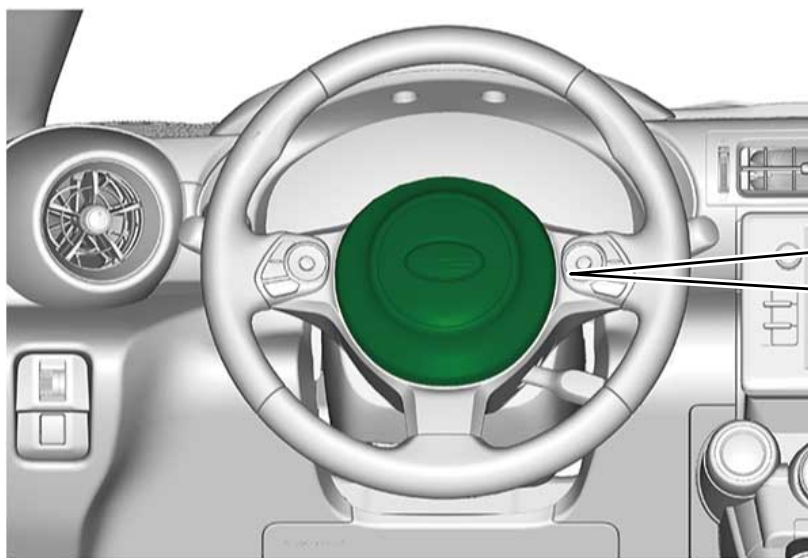
#### Note:

For the occupant detection system, refer to "OCCUPANT DETECTION SYSTEM" of "AIRBAG (DIAGNOSTICS)" section.  [Ref. to AIRBAG\(DIAGNOSTICS\)>Electrical Component Location>LOCATION > OCCUPANT DETECTION SYSTEM.](#)

## AIRBAG SYSTEM > General Description

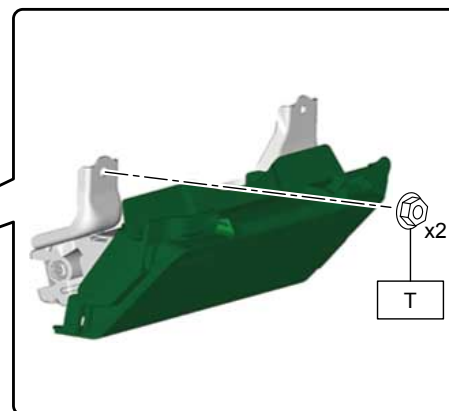
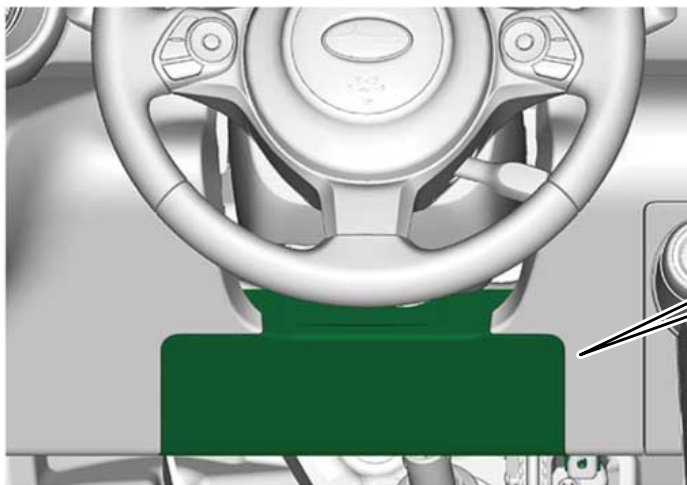
### COMPONENT

#### 1. DRIVER'S AIRBAG MODULE



AB-11941

## 2. KNEE AIRBAG MODULE

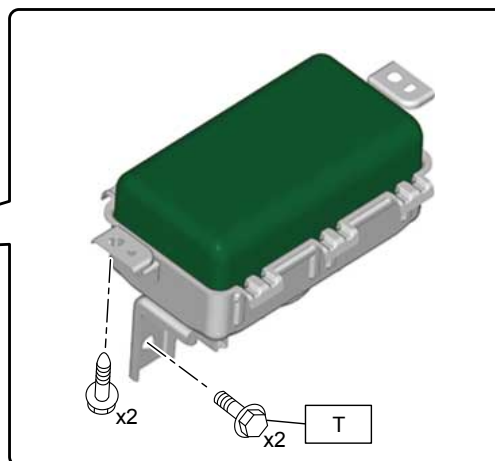
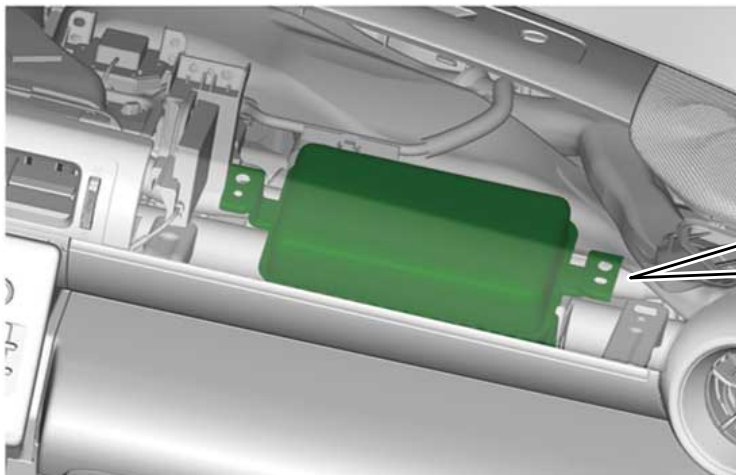


AB-11942

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 7.5 (0.8, 5.5)**

## 3. PASSENGER'S AIRBAG MODULE

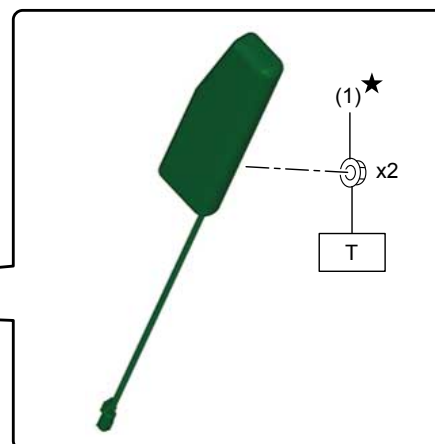
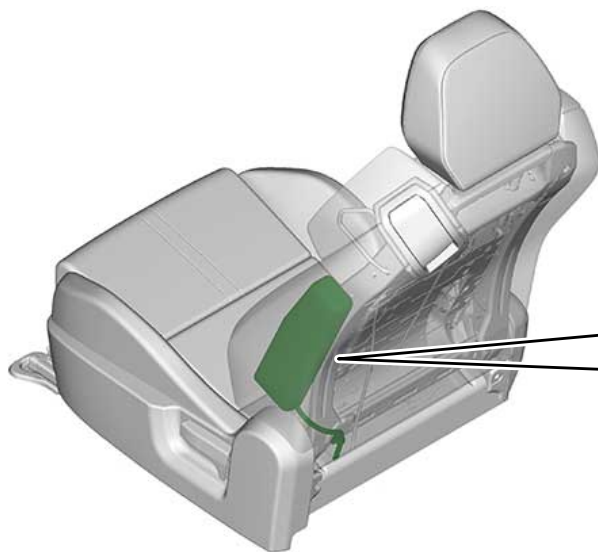


AB-11943

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 7.5 (0.8, 5.5)**

#### 4. SIDE AIRBAG MODULE



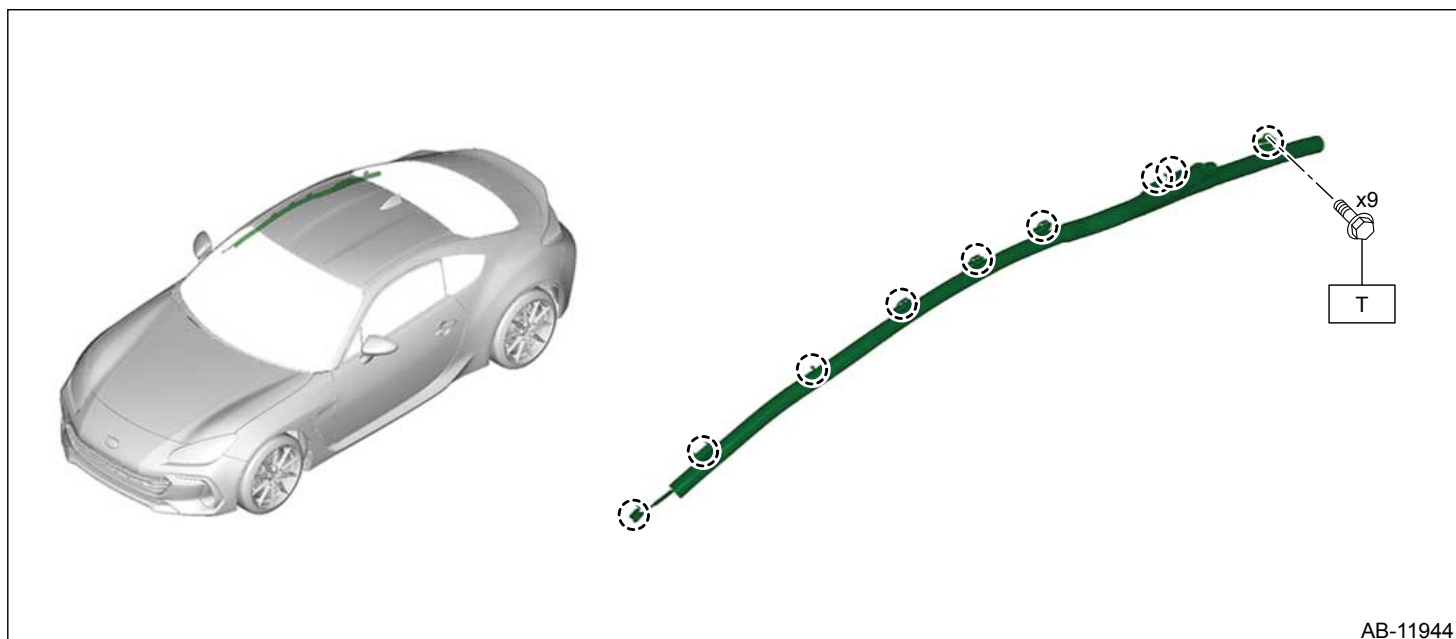
AB-11885

(1) Self-locking nut

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 6 (0.6, 4.4)**

#### 5. CURTAIN AIRBAG MODULE

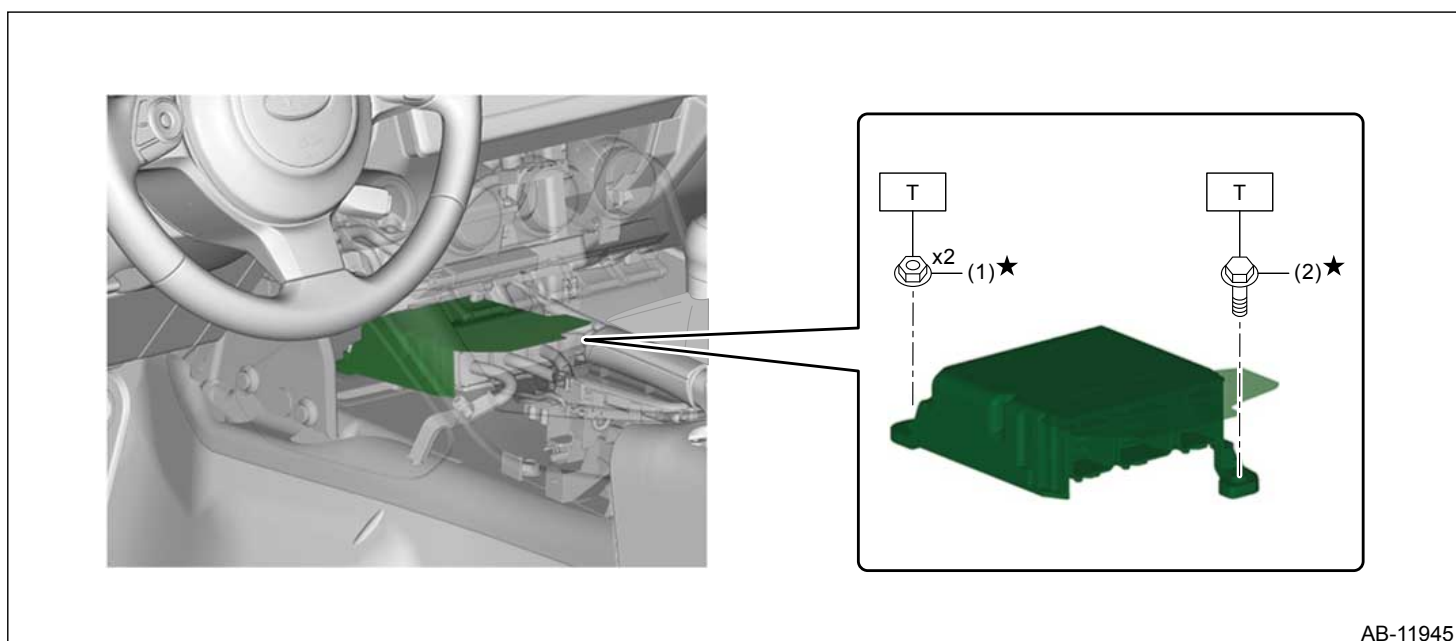


AB-11944

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 7.5 (0.8, 5.5)**

## 6. AIRBAG CONTROL MODULE



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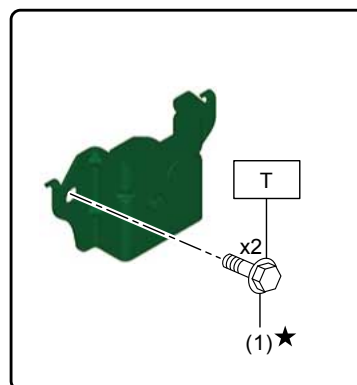
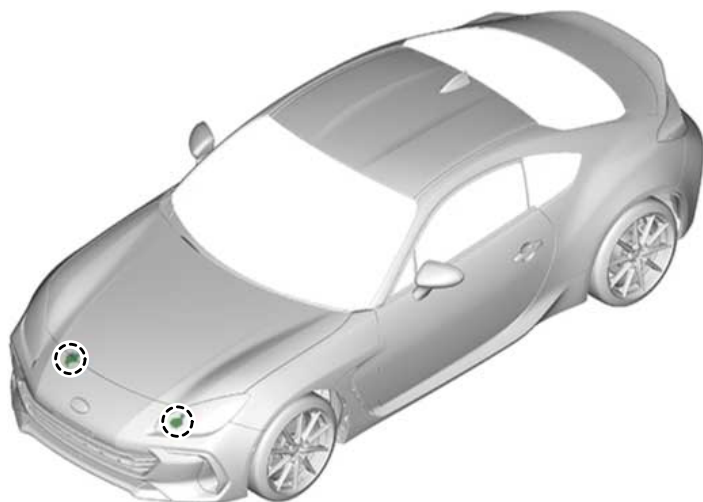
(1) Nut

(2) Flange bolt

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 25 (2.5, 18.4)**

## 7. Front impact sensor



AB-11888

(1) Flange bolt

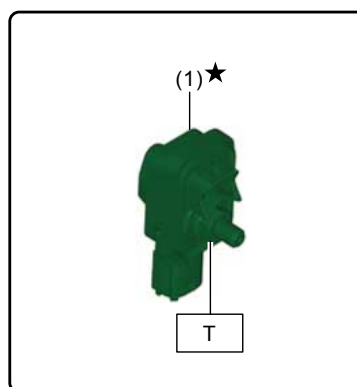
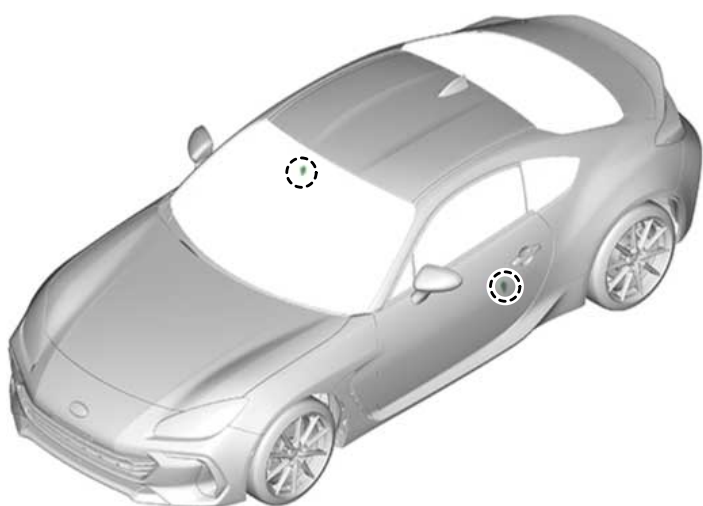
**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 13 (1.3, 9.6)**

## 8. Side impact sensor (front door)

### Caution:

- The nuts cannot be removed from Side impact sensor (front door) . Do not remove the mounting nuts.
- Do not reuse Side impact sensor (front door) that have been removed.



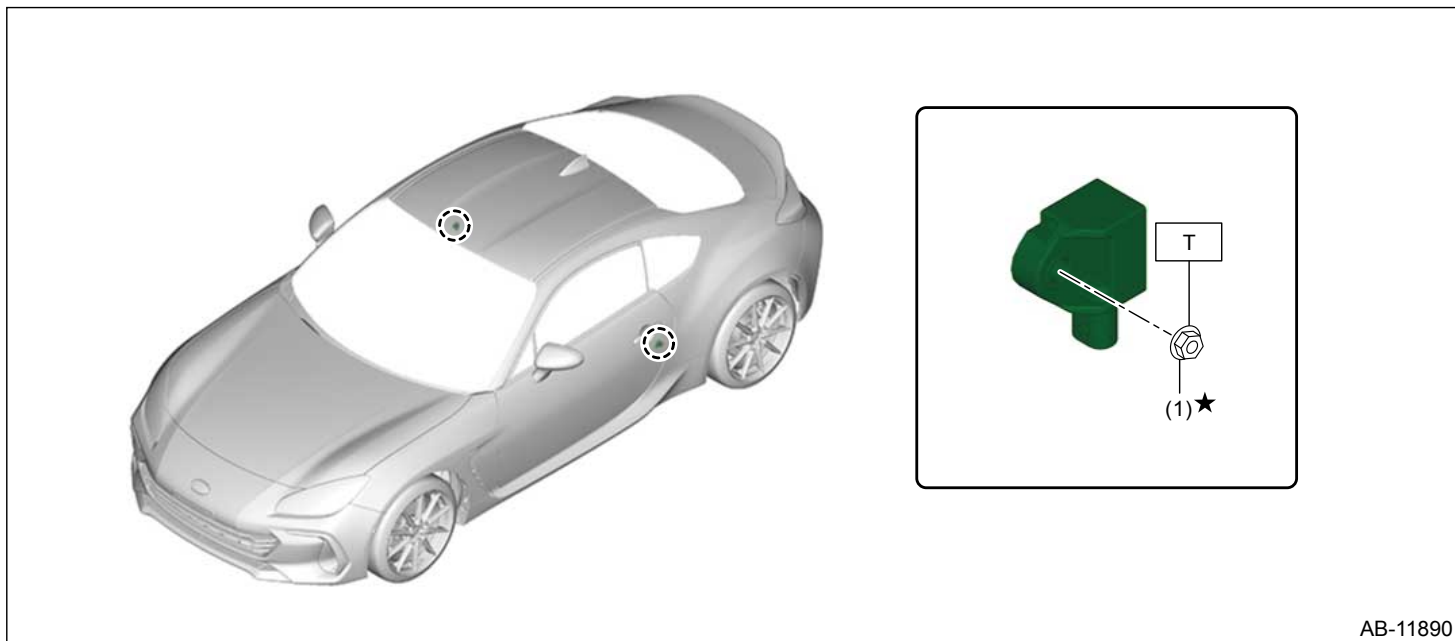
AB-11889

(1) Side impact sensor (front door)

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 7.5 (0.8, 5.5)**

## 9. Side impact sensor (center pillar)

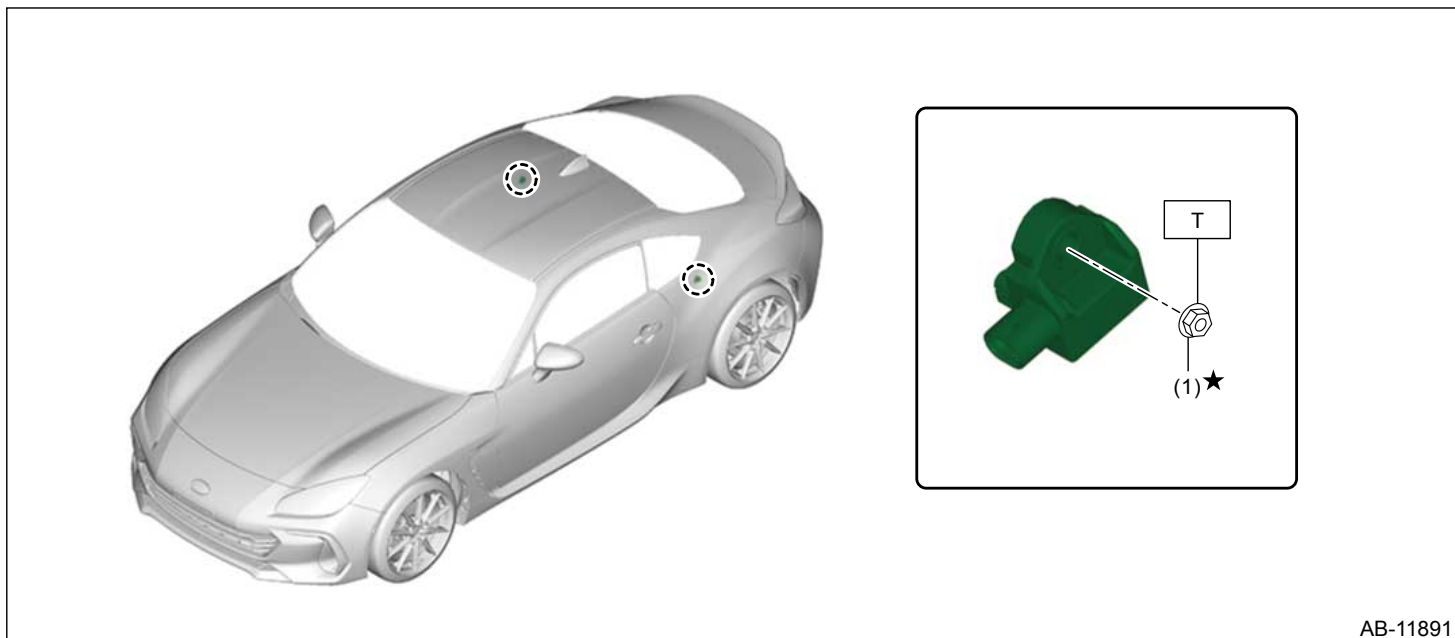


(1) Nut

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 7.5 (0.8, 5.5)**

## 10. Side impact sensor (rear wheel house)



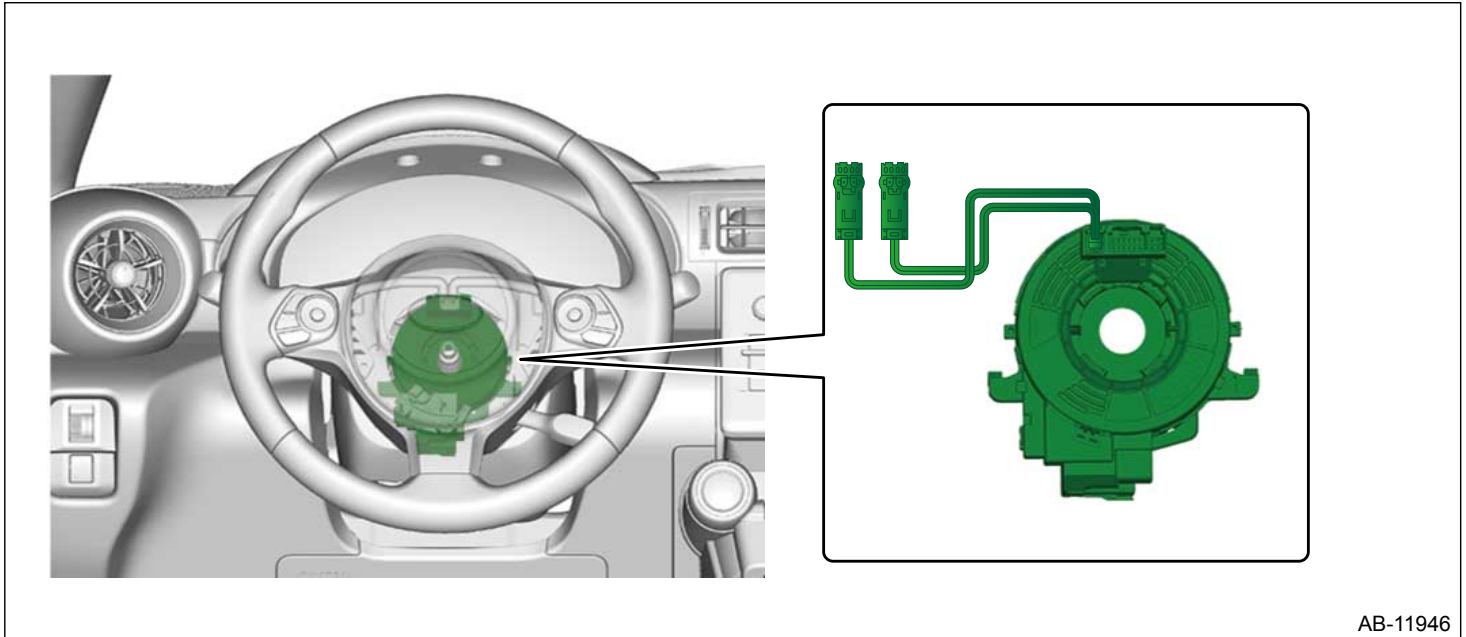
(1) Nut

**Tightening torque: N·m (kgf-m, ft-lb)**

**T: 7.5 (0.8, 5.5)**

## 11. STEERING ROLL CONNECTOR





## 12. SEAT BELT PRETENSIONER

For the seat belt pretensioner, refer to the "SEAT BELT SYSTEM" section. [🔗 Ref. to SEAT BELT SYSTEM>General Description.](#)

### AIRBAG SYSTEM > General Description

## INSPECTION

### 1. BASIC INSPECTION

For basic inspection, refer to "Basic Diagnostic Procedure" of "AIRBAG (DIAGNOSTICS)" section. [🔗 Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure.](#)

### 2. SYSTEM BLOCK DIAGRAM

For system block diagram, refer to "System Block Diagram" in "AIRBAG (DIAGNOSTICS)" section. [🔗 Ref. to AIRBAG\(DIAGNOSTICS\)>General Description>SYSTEM BLOCK DIAGRAM.](#)

### 3. MODULE I/O SIGNAL


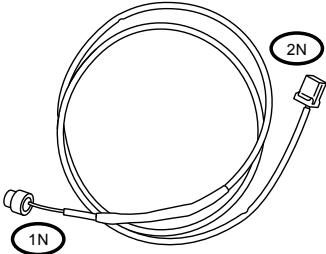
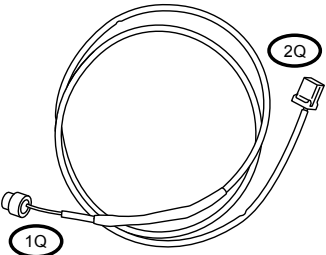
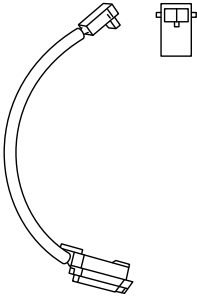
For the specification (electrical component), refer to "Control Module I/O Signal" of "AIRBAG (DIAGNOSTICS)" section. [🔗 Ref. to AIRBAG\(DIAGNOSTICS\)>Control Module I/O Signal.](#)

### AIRBAG SYSTEM > General Description

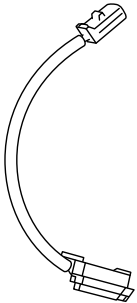
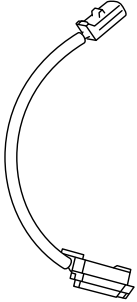
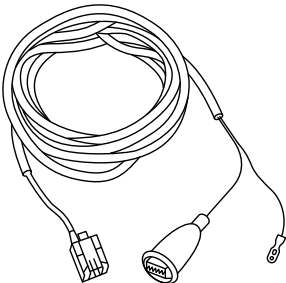
## PREPARATION TOOL

### 1. SUBARU SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	—	SUBARU SELECT	Used for setting of each function and

 <p>STSSM4</p>		MONITOR 4	<p>troubleshooting for electrical system.</p> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• For detailed operation procedures, refer to “Help” of application.</li> <li>• Used together with interface for Subaru Select Monitor (such as DST-i and DST-010).</li> </ul>
 <p>ST98299SA000</p>	98299SA000	TEST HARNESS N	Used for unit inspection of steering roll connector.
 <p>ST98299SA040</p>	98299SA040	TEST HARNESS Q	Used for unit inspection of steering roll connector.
 <p>ST98299SA010</p>	98299SA010	TEST HARNESS ADAPTER D	<ul style="list-style-type: none"> <li>• Used for operation process of driver’s airbag module.</li> <li>• Used for operation process of knee airbag module.</li> <li>• Used for operation process of curtain airbag module.</li> <li>• Used for operation process of front pretensioner.</li> <li>• Used together with AIRBAG DEPLOYMENT TOOL. (98299PA030)</li> </ul>
	98299FJ000	TEST HARNESS ADAPTER AM	<ul style="list-style-type: none"> <li>• Used for operation process of passenger’s airbag module.</li> <li>• Used together with AIRBAG DEPLOYMENT TOOL. (98299PA030)</li> </ul>



 <p>ST98299FJ000</p>			
 <p>ST98299CA000</p>	98299CA000	TEST HARNESS ADAPTER AR	<ul style="list-style-type: none"> <li>• Used for operation process of side airbag module.</li> <li>• Used together with AIRBAG DEPLOYMENT TOOL. (98299PA030)</li> </ul>
 <p>ST98299PA030</p>	98299PA030	AIRBAG DEPLOYMENT TOOL	<ul style="list-style-type: none"> <li>• Used for operation process of airbag module.</li> <li>• Used together with each test harness adapter.</li> </ul>

## 2. OTHER

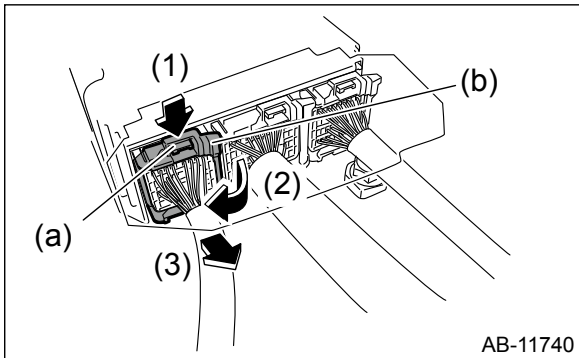
	REMARKS
Circuit tester	Used for measuring resistance, voltage and current.

## PROCEDURE

### 1. AIRBAG CONTROL MODULE

#### 1. How to disconnect:

- (1) Push the lock lever plate (a).
- (2) While holding down the lock lever plate (a), pull the lever (b) toward you.
- (3) Pull out the connector.



#### 2. How to connect:

##### Note:

**Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

Insert the connector and push the lock lever in securely.

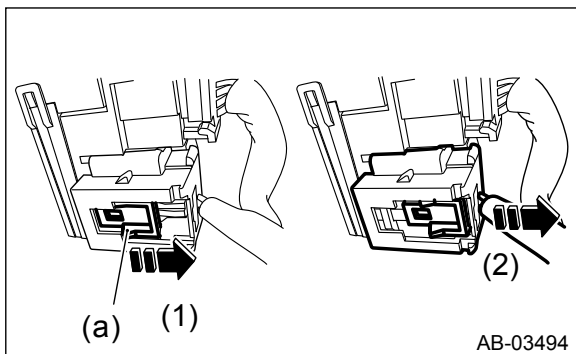
### 2. STEERING ROLL CONNECTOR

#### 1. How to disconnect:

##### Note:

**When pulling the slide lock or disconnecting the connector, be sure to hold the connector, not the harness, to disconnect.**

- (1) Pull the slide lock (a) in the direction of arrow.
- (2) With the slide lock (a) pulled, disconnect the connector.

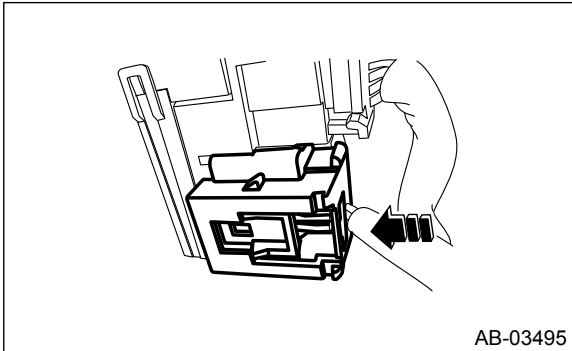


#### 2. How to connect:

**Note:**

**Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

Holding the connector, push it in securely until a clicking sound is heard.



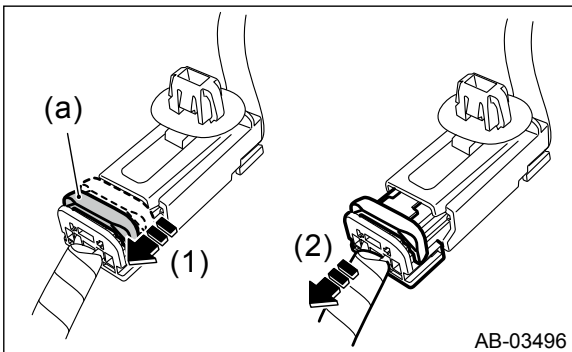
### 3. PASSENGER'S AIRBAG MODULE

#### 1. How to disconnect:

**Note:**

**When pulling the slide lock or disconnecting the connector, be sure to hold the connector, not the harness, to disconnect.**

- (1) Pull the slide lock (a) in the direction of arrow.
- (2) With the slide lock (a) pulled, disconnect the connector.

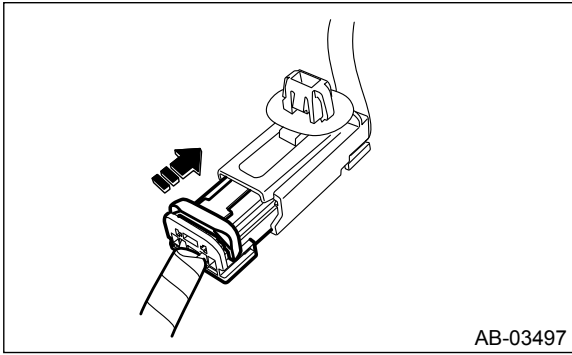


#### 2. How to connect:

**Note:**

**Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

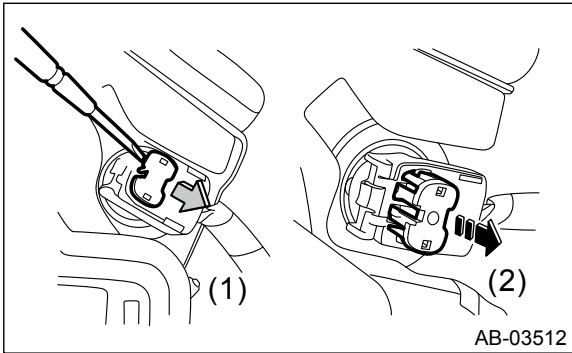
Holding the connector, push it in securely until a clicking sound is heard.



#### 4. KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER (PASSENGER'S SIDE)

##### 1. How to disconnect:

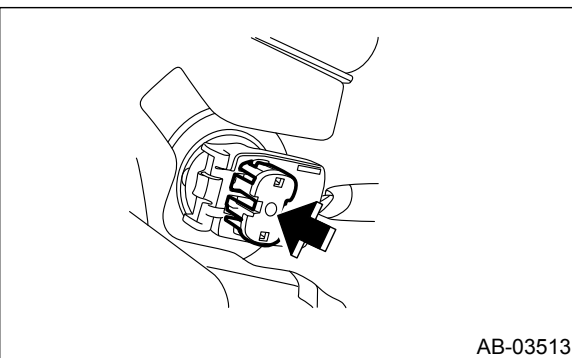
- (1) Using a flat tip screwdriver wrapped with a protective tape, pry the push lock upward to unlock.
- (2) Pull the connector to disconnect from the airbag module assembly or the retractor assembly.



##### 2. How to connect:

###### Note:

- Be sure to insert the connector in until it is locked.
- Press in the push lock securely. Then pull it gently to make sure that it is locked.



Connect the connector in the reverse order of disconnecting. At this time, be sure to insert until a clicking sound is heard.

#### 5. EACH IMPACT SENSOR

**Note:**

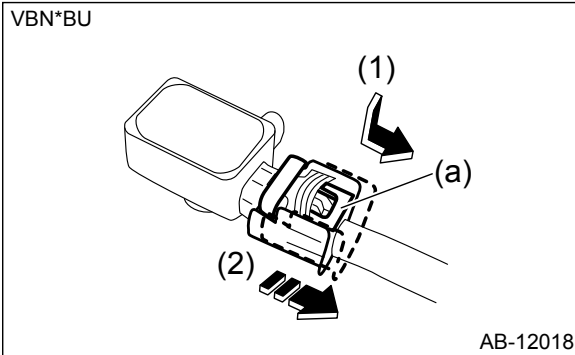
**The sensor shapes vary depending on the locations.**

**1.** How to disconnect:

**Note:**

**When pulling the slide lock or disconnecting the connector, be sure to hold the connector, not the harness, to disconnect.**

- (1) Pull the lock arm (a) one step in the direction of arrow while pushing.
- (2) While pressing down the lock arm (a), hold the outer part of connector to disconnect the connector.



**2.** How to connect:

**Note:**

**Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

Insert the connector, and push the lock arm securely until a clicking sound is heard.

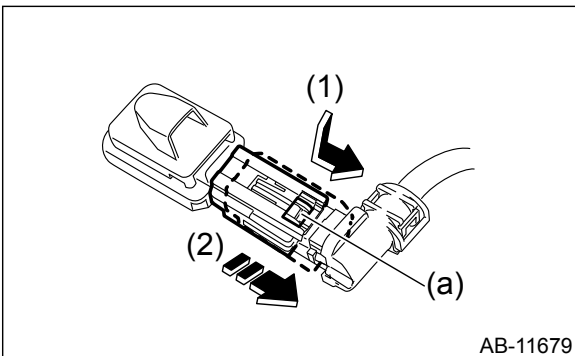
## 6. Side impact sensor (front door)

**1.** How to disconnect:

**Note:**

**When pulling the slide lock or disconnecting the connector, be sure to hold the connector, not the harness, to disconnect.**

- (1) Pull the lock arm (a) one step in the direction of arrow while pushing.
- (2) Push the lock arm (a) again.
- (3) Holding outer part, pull it in the direction of arrow to disconnect the connector.



**2.** How to connect:

**Note:**

**Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

Holding the connector, push it in securely until a clicking sound is heard.

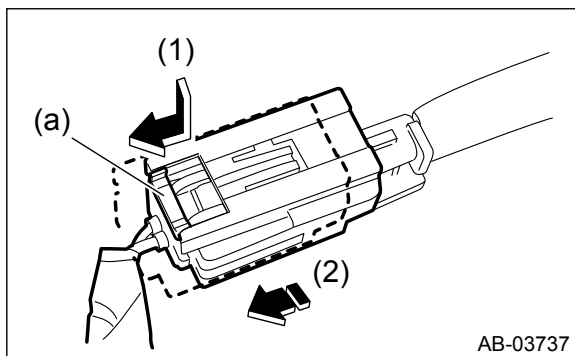
## 7. SIDE AIRBAG MODULE

### 1. How to disconnect:

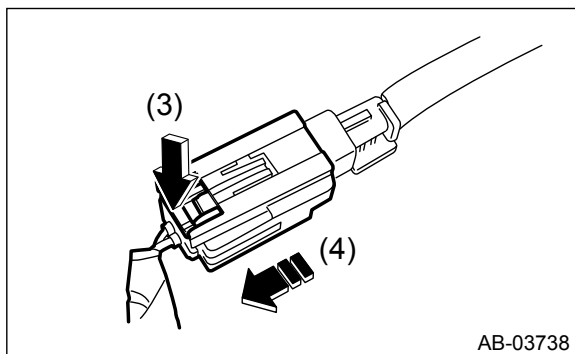
**Note:**

**When pulling the slide lock or disconnecting the connector, be sure to hold the connector, not the harness, to disconnect.**

- (1) Pull the lock arm (a) one step while pushing.
- (2) Holding outer part, pull it one step in the direction of arrow.



- (3) Push the lock arm again.
- (4) Holding outer part, pull it in the direction of arrow to disconnect the connector.



### 2. How to connect:

**Note:**

**Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

Holding the connector, push it in securely until a clicking sound is heard.

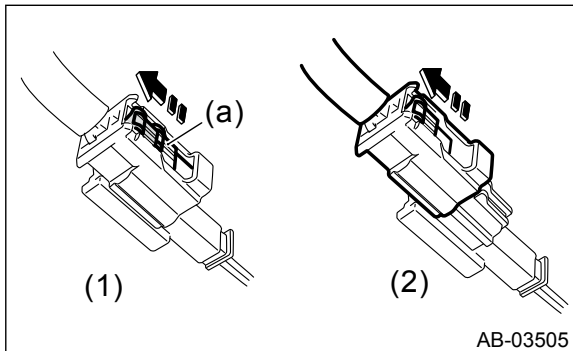
## 8. Side impact sensor (front door) COUPLING HARNESS CONNECTOR (BETWEEN AIRBAG REAR HARNESS AND DOOR HARNESS)

### 1. How to disconnect:

**Note:**

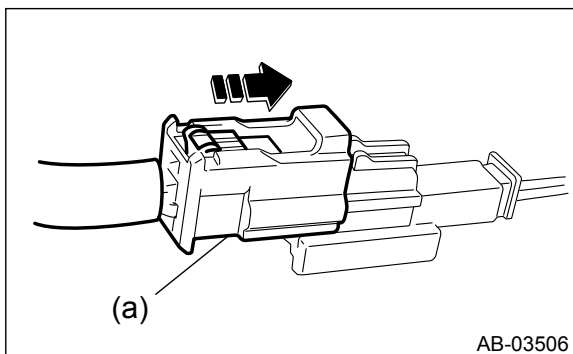
**When pulling the slide lock or disconnecting the connector, be sure to hold the connector, not the harness, to disconnect.**

- (1) Pull the slide lock (a) in the direction of arrow.
- (2) With the slide lock pulled, disconnect the connector.

**2. How to connect:****Note:**

- **The outer part (a) returns to the original position. Therefore do not touch the outer part.**
- **Be sure to insert the connector in until it is locked. Then pull it gently to make sure that it is locked.**

Holding the connector, push it in securely until a clicking sound is heard.



## AIRBAG SYSTEM > Inspection Locations after a Collision

### INSPECTION


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If the vehicle is involved in a collision, even if it is a slight collision, be sure to check the following systems.

#### 1. DRIVER'S AIRBAG MODULE ASSEMBLY

##### 1. Frontal collision (driver's airbag module assembly activated)

1. Replace the following parts with new ones.

- Airbag control module
- Driver's airbag module
- Knee airbag module
- Passenger's airbag module (if deployed)
- Curtain airbag module (right and left / if deployed)
- Seat assembly (if airbag module below deployed)
  - Side airbag module
- Belt assembly front OUT (LH and RH)
- Front impact sensor (LH and RH)
- Instrument panel assembly (if passenger's airbag module deployed)
- Steering wheel assembly
- Column assembly steering
- Steering roll connector
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

2. Visually inspect the following items and replace any damaged part with a new one.

- Passenger's airbag module (if not deployed)
- Instrument panel assembly (if passenger's airbag module not deployed)
- Universal joint assembly steering
- Steering gearbox assembly
- Beam steering COMPL
- Belt assembly front INN
- Harnesses and connectors on body side that are linked to the replaced parts


##### 2. Frontal collision (driver's airbag module not activated)

Visually inspect the following items and replace any damaged or cracked part with a new one.


Specially inspect the damage of airbag module body, mounting bracket and harness connector.

- Driver's airbag module
- Knee airbag module
- Passenger's airbag module
- Steering wheel assembly
- Column assembly steering
- Belt assembly front OUT (LH and RH)
- Front impact sensor (LH and RH)
- Instrument panel assembly
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic



procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)


**3.** No frontal collision

- Visually inspect the airbag modules for damage or contamination and replace any faulty part with a new one.
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

## **2. KNEE AIRBAG MODULE**

**1.** Frontal collision (knee airbag module activated)

1. Replace the following parts with new ones.

- Airbag control module
- Driver's airbag module
- Knee airbag module
- Passenger's airbag module (if deployed)
- Curtain airbag module (right and left / if deployed)
- Seat assembly (if airbag module below deployed)
  - Side airbag module
- Belt assembly front OUT (LH and RH)
- Front impact sensor (LH and RH)
- Instrument panel assembly (if passenger's airbag module deployed)
- Steering wheel assembly
- Column assembly steering
- Steering roll connector
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)


2. Visually inspect the following items and replace any damaged part with a new one.

- Passenger's airbag module (if not deployed)
- Instrument panel assembly (if passenger's airbag module not deployed)
- Universal joint assembly steering
- Steering gearbox assembly
- Beam steering COMPL
- Belt assembly front INN
- Harnesses and connectors on body side that are linked to the replaced parts


**2.** Frontal collision (knee airbag module not activated)

Visually inspect the following items and replace any damaged or cracked part with a new one. Specially inspect the damage of airbag module body, mounting bracket and harness connector.

- Driver's airbag module
- Knee airbag module
- Passenger's airbag module
- Steering wheel assembly
- Column assembly steering

- Belt assembly front OUT (LH and RH)
- Front impact sensor (LH and RH)
- Instrument panel assembly
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)


### **3.** No frontal collision

- Visually inspect the airbag modules for damage or contamination and replace any faulty part with a new one.
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

## **3. PASSENGER'S AIRBAG MODULE**

### **1.** Frontal collision (passenger's airbag module activated)

#### 1. Replace the following parts with new ones.

- Airbag control module
- Driver's airbag module
- Knee airbag module
- Passenger's airbag module
- Curtain airbag module (right and left / if deployed)
- Seat assembly (if airbag module below deployed)
  - Side airbag module
- Belt assembly front OUT (LH and RH)
- Front impact sensor (LH and RH)
- Instrument panel assembly
- Steering wheel assembly
- Column assembly steering
- Steering roll connector
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

#### 2. Visually inspect the following items and replace any damaged part with a new one.


- Universal joint assembly steering
- Steering gearbox assembly
- Beam steering COMPL
- Belt assembly front INN
- Harnesses and connectors on body side that are linked to the replaced parts

### **2.** Frontal collision (passenger's airbag module not activated)


Visually inspect the following items and replace any damaged or cracked part with a new one.

Specially inspect the damage of airbag module body, mounting bracket and harness connector.

- Driver's airbag module
- Knee airbag module
- Passenger's airbag module


- Steering wheel assembly
- Column assembly steering
- Belt assembly front OUT (LH and RH)
- Front impact sensor (LH and RH)
- Instrument panel assembly
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

### 3. No frontal collision

- Visually inspect the airbag modules for damage or contamination and replace any faulty part with a new one.
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

## 4. SIDE AIRBAG MODULE

### 1. Side impact (side airbag module activated)


1. Replace the following parts with new ones.
  - Airbag control module
  - Side impact sensor (front door) (collision side)
  - Belt assembly front OUT (LH and RH)
  - Side airbag module (collision side)
  - Side impact sensor (center pillar) (collision side)
  - Curtain airbag module (collision side)
  - Side impact sensor (rear wheel house) (collision side)
  - Seat assembly (collision side)
  - Trim panel roof assembly
  - Trim panel for each pillar (collision side)
  - Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)
2. Visually inspect the following items and replace any damaged part (collision side) with a new one.
  - Harnesses and connectors on body side that are linked to the replaced parts

### 2. Side impact (side airbag module not activated)


Visually inspect the following items and replace any damaged or cracked part (collision side) with a new one.

Specially inspect the damage of airbag module body, mounting bracket and harness connector.

- Seat assembly (collision side)
- Side impact sensor (front door)
- Side airbag module
- Side impact sensor (center pillar)
- Curtain airbag module
- Side impact sensor (rear wheel house)
- Belt assembly front OUT (LH and RH)

- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)


### 3. No side impact

- Visually inspect the airbag modules for damage or contamination and replace any faulty part with a new one.
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

## 5. CURTAIN AIRBAG MODULE

### 1. Side impact or roll over (curtain airbag module activated)

#### 1. Replace the following parts with new ones.

- Airbag control module
- Curtain airbag module (collision side)
- Belt assembly front OUT (LH and RH)
- Side impact sensor (front door) (collision side)
- Side impact sensor (center pillar) (collision side)
- Side impact sensor (rear wheel house) (collision side)
- Seat assembly (collision side)
  - Side airbag module
- Trim panel roof assembly
- Trim panel for each pillar (collision side)
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)


#### 2. Visually inspect the following items and replace any damaged part (collision side) with a new one.

- Harnesses and connectors on body side that are linked to the replaced parts

### 2. Side impact (curtain airbag module not activated)

Visually inspect the following items and replace any damaged or cracked part (collision side) with a new one.


Specially inspect the damage of airbag module body, mounting bracket and harness connector.

- Trim panel roof assembly
- Trim panel for each pillar
- Curtain airbag module
- Side impact sensor (front door)
- Side impact sensor (center pillar)
- Side impact sensor (rear wheel house)
- Belt assembly front OUT (LH and RH)
- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

### 3. No side impact

- Visually inspect the airbag modules for damage or contamination and replace any faulty part with a

new one.

- Passenger's seat occupant detection system (Perform the inspection following the diagnostic procedure in the "AIRBAG (DIAGNOSTICS)" section.)  [Ref. to AIRBAG\(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

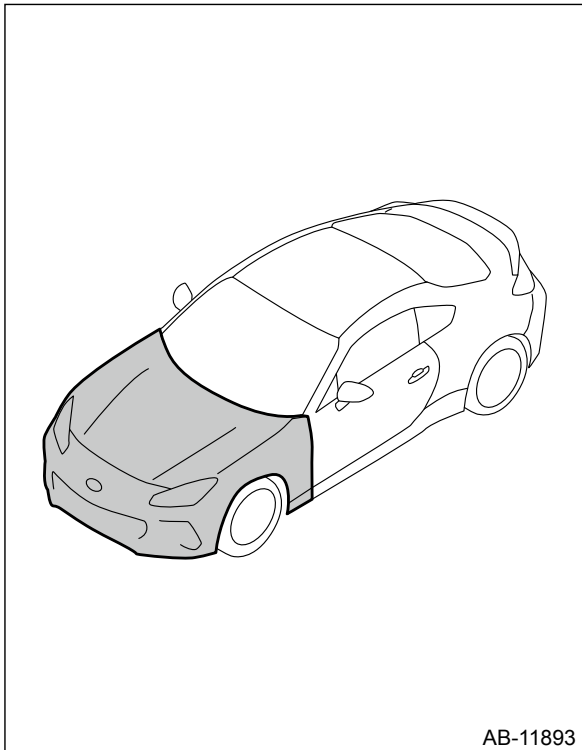
## 6. AIRBAG CONTROL MODULE

Check for the following, and replace the damaged parts with new parts.

- Control module is cracked or deformed.
- Connector is scratched, cracked or deformed.
- Driver's airbag module has been activated.
- Knee airbag module has been activated.
- Passenger's airbag module has been activated.
- Side airbag module has been activated.
- Curtain airbag module has been activated.
- Belt assembly front OUT has been activated.

## 7. FRONT IMPACT SENSOR

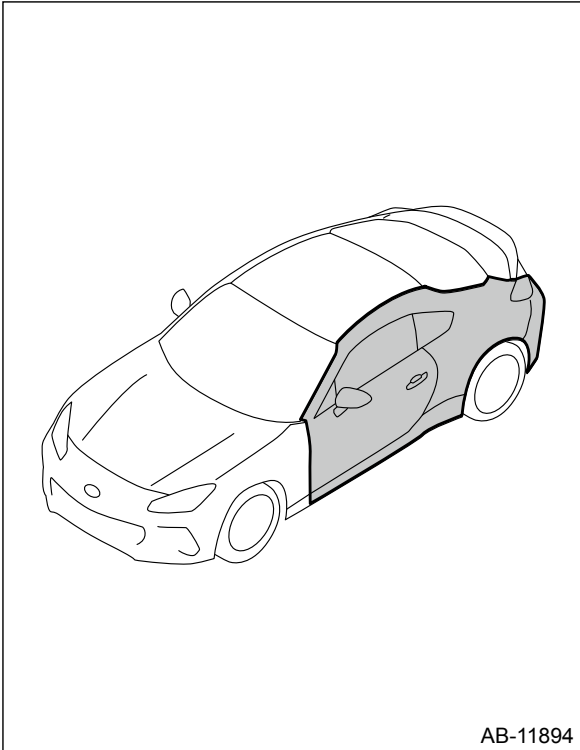
If the section of vehicle as shown in the figure is damaged, check the following items and replace the damaged parts with new parts.



- Front impact sensor is cracked or deformed.
- Mounting bracket is cracked or deformed.
- Connector is scratched, cracked or deformed.
- Driver's airbag module, knee airbag module, passenger's airbag module and curtain airbag module have been activated.

## 8. EACH SIDE IMPACT SENSOR

If the section of vehicle as shown in the figure is damaged, check the following items and replace the damaged parts with new parts.



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- Side impact sensor (front door) , Side impact sensor (center pillar) and Side impact sensor (rear wheel house) are cracked or deformed.
- Mounting bracket is cracked or deformed.
- Connector is scratched, cracked or deformed.
- Side airbag module or curtain airbag module has been activated. (Operating side)




## 9. STEERING ROLL CONNECTOR

Check for the following, and replace the damaged parts such as cracks, deformation, etc. with new parts.

- Combination switch
- Steering roll connector

## 10. CHECK STEERING SYSTEM

Check the following items, and if there is anything out of standard value, it is considered to be damaged. If so, replace it with a new part.

- Column assembly steering:  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Column>INSPECTION.](#)
- Universal joint assembly steering:  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Universal Joint>INSPECTION.](#)
- Steering gearbox assembly:  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Gearbox>INSPECTION.](#)

## 11. DRIVER'S SEAT

**Caution:**




- **Do not remove the slide rail from the seat cushion frame. If the slide rail is removed, be sure to replace the frame assembly cushion as a whole unit.**
- **If scratches, cracks or deformation are detected, be sure to replace the frame assembly as a whole unit.**

1. Check for the following, and replace the damaged parts with new parts.
  - Body or bracket of the belt assembly front INN is scratched, cracked or deformed.
  - Frame assembly is cracked or deformed.
  - Headrest assembly for deformation or play.
  - If the seat surface is damaged or frayed, replace the cover with a new part.
  - If the seat surface and seat heater unit are replaced, replace the hog ring and hang wire with new parts.
  - If any damage is present in the protective cover of the side airbag module, replace the side airbag module with a new part.

## 12. PASSENGER'S SEAT

**Caution:**

- **Do not disassemble the frame assembly cushion, slide rail and load sensor, which are integrated in an assembly component. If scratches, cracks or deformation are detected, be sure to replace the part as an assembly.**
- **If scratches, cracks or deformation are detected, be sure to replace the frame assembly as a whole unit.**

1. Check for the following, and replace the damaged parts with new parts.
  - Body or bracket of the belt assembly front INN is scratched, cracked or deformed.
  - Frame assembly is cracked or deformed.
  - Headrest assembly for deformation or play.
  - If the seat surface is damaged or frayed, replace the cover with a new part.
  - If the seat surface and seat heater unit are replaced, replace the hog ring and hang wire with new parts.
  - If any damage is present in the protective cover of the side airbag module, replace the side airbag module with a new part.
2. When the passenger's seat is removed (including the case that the bolts are loosened), perform [Rezero] of the occupant detection system.  [Ref. to AIRBAG\(DIAGNOSTICS\)>Rezero.](#)
3. When the passenger's seat is removed (including the case that the bolts are loosened), make sure that the occupant detection system operates normally.  [Ref. to SEAT BELT SYSTEM>Seat Belt Warning System>INSPECTION.](#)
4. Use the Subaru Select Monitor to check whether the passenger's seat belt buckle switch is operating normally.  [Ref. to AIRBAG\(DIAGNOSTICS\)>Data Monitor>OPERATION.](#)

## 13. CHECK OTHER COMPONENTS

Check the following parts, and replace any damaged parts with new parts.

1. Check the following parts equipped with the direct type connector for damage, and also check each

harness for pinch and connector damage. Replace the main harness as a unit if damage is found.

- Knee airbag module
- Curtain airbag module
- Belt assembly front OUT

**2.** Check the seat cushion, backrest, slide rail and headrest for installation condition and looseness.

**3.** If any break or fray is found in the cover front seat backrest of the driver's seat or passenger's seat, the side airbag system may not operate normally. In this case, replace the cover backrest front seat with a new part.


**4.** If the attachment bracket of the curtain airbag module is deformed or cracked, replace the defective part.




## AIRBAG SYSTEM > Driver's Airbag Module

### REMOVAL

#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not allow harness and connectors to interfere or get tangled up with other parts.

1. Set the steering wheel to the straight-ahead position.
2. Turn the ignition switch to OFF.
3. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
4. Remove the driver's airbag module.
  - (1) Remove the cap of the cover steering wheel LWR using a flat tip screwdriver or similar tool wrapped with protective tape.

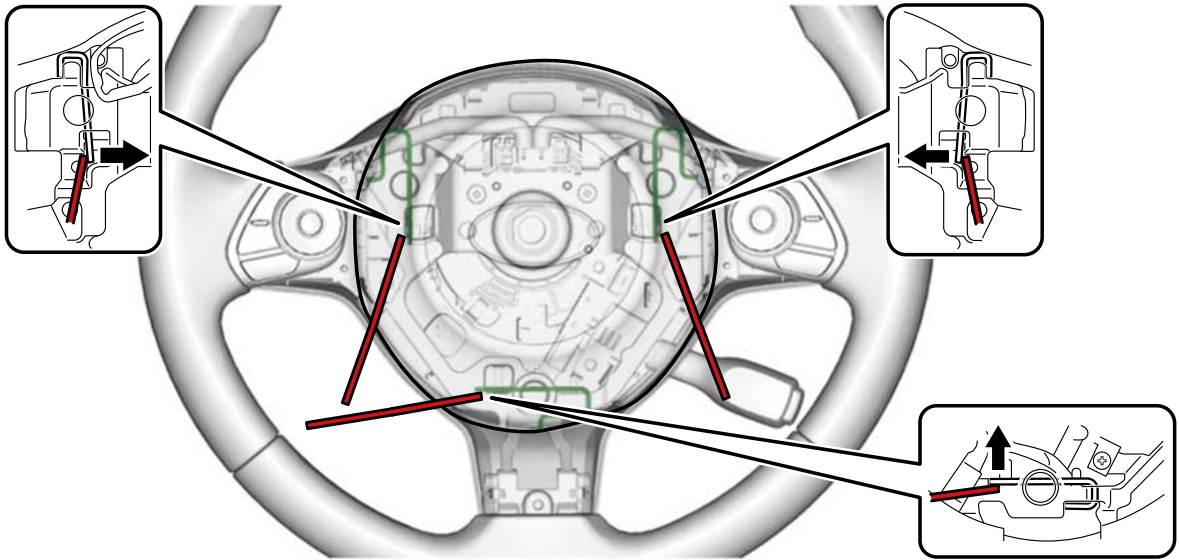
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- (2) Using a hexagon wrench etc. wrapped by protective tape, insert the snap pins and release the locks (three locations).

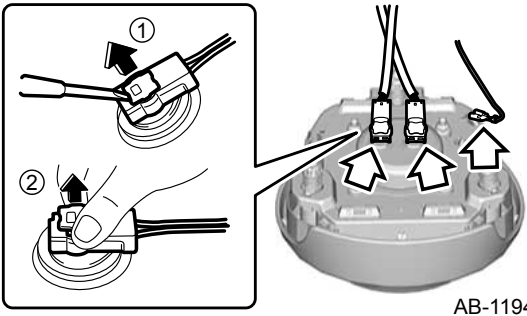
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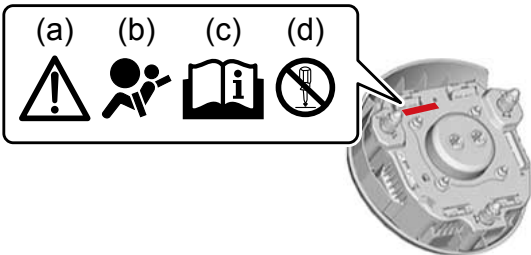
- (3) Disconnect the horn harness and airbag connector, and remove the driver's airbag module.   
[Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)

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Meaning of pictograms indicated on the label

- (a) Flammable explosive substance encapsulated parts; be careful of handling.
- (b) Indicates that this part is an airbag module.
- (c) Before handling, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" in the service manual.


For the disposal procedures of the airbag modules, refer to "Airbag Module Disposal".

- (d) Do not disassemble the airbag module.

## AIRBAG SYSTEM > Driver's Airbag Module

### INSTALLATION



#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not allow harness and connectors to interfere or get tangled up with other parts.

1. Before installation, inspect the following items and replace any faulty part with a new one.
  - Airbag module is cracked or deformed.
  - Harness and/or connector is cracked, deformed or open.
  - Harness wire is exposed.
  - The steering wheel assembly is in the way, making it difficult to install the airbag module.
  - The clearance between the driver's airbag module and steering wheel assembly is not constant.
2. Install the driver's airbag module.

#### Note:


- Make sure that the snap pin is securely placed inside the guide before installing the airbag module.
- After the airbag module is installed, make sure that the airbag module locks (three positions) are securely locked.




- (1) Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
  - (2) Connect the horn harness.
  - (3) Press in the locks (three positions) to install the airbag module.
3. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
  4. Check that the horn sounds.

## AIRBAG SYSTEM > Knee Airbag Module

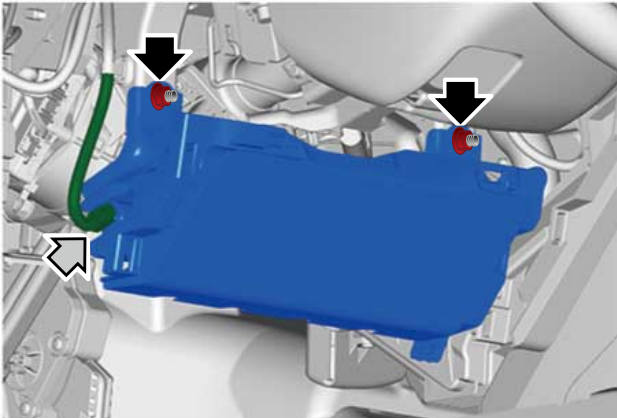
### REMOVAL

#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not allow harness and connectors to interfere or get tangled up with other parts. They could cause poor continuity.

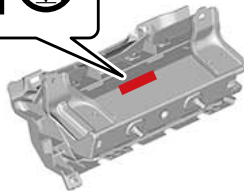
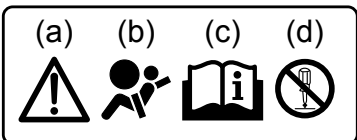
1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the cover LWR driver INN and cover LWR driver OUT.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Lower Cover>REMOVAL.](#)
4. Remove the knee airbag module.
  - (1) Disconnect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
  - (2) Remove the nuts, and remove the knee airbag module.

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Meaning of pictograms indicated on the label


- (a) Flammable explosive substance encapsulated parts; be careful of handling.
- (b) Indicates that this part is an airbag module.




- (c) Before handling, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" in the service manual.  
For the disposal procedures of the airbag modules, refer to "Airbag Module Disposal".
- (d) Do not disassemble the airbag module.

## AIRBAG SYSTEM > Knee Airbag Module

### INSTALLATION

#### Caution:


- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not allow harness and connectors to interfere or get tangled up with other parts. They could cause poor continuity.



1. Before installation, inspect the following items and replace any faulty part with a new one.
  - Knee airbag module is cracked or deformed.
  - Claw portion of the metallic case of knee airbag module is not aligned with the plastic cover.
  - Knee airbag module bracket is cracked or deformed.
  - Harness and/or connector is cracked, deformed or open.
  - Harness wire is exposed.
  - Depending on the condition of the beam steering COMPL, installation of the knee airbag module is difficult.
2. Install the knee airbag module.  
**Tightening torque:**  
7.5 N·m (0.8 kgf-m, 5.5 ft-lb)
3. Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
4. Install the cover LWR driver OUT and cover LWR driver INN.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Lower Cover>INSTALLATION.](#)
5. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)

## AIRBAG SYSTEM > Passenger's Airbag Module

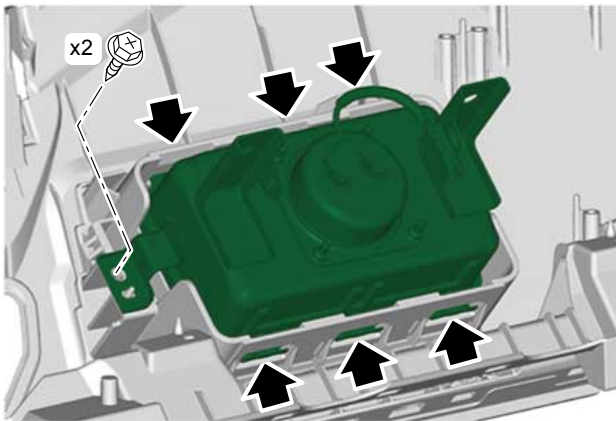
### REMOVAL

#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not allow harness and connectors to interfere or get tangled up with other parts.

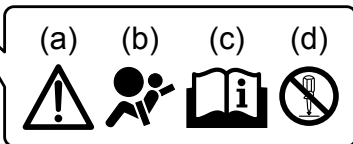
1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the instrument panel assembly.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Assembly>REMOVAL.](#)
4. Remove the tapping screws and release the claws, and remove the passenger's airbag module.

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Meaning of pictograms indicated on the label

- (a) Flammable explosive substance encapsulated parts; be careful of handling.
- (b) Indicates that this part is an airbag module.
- (c) Before handling, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" in the service manual.  
For the disposal procedures of the airbag modules, refer to "Airbag Module Disposal".
- (d) Do not disassemble the airbag module.

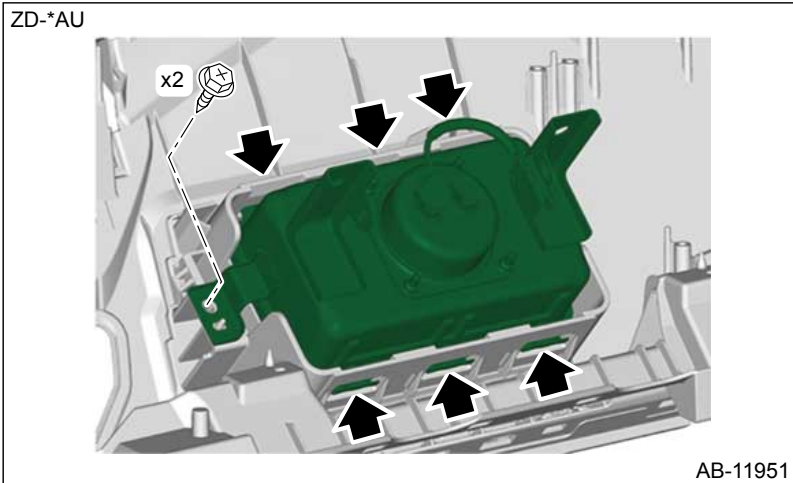
## AIRBAG SYSTEM > Passenger's Airbag Module

### INSTALLATION

#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not allow harness and connectors to interfere or get tangled up with other parts.

1. Before installation, inspect the following items and replace any faulty part with a new one.
  - Passenger's airbag lid (instrument panel surface) is cracked or deformed.
  - Airbag module is cracked or deformed.
  - Harness and/or connector is cracked, deformed or open.
  - Harness wire is exposed.
  - Mounting bracket is cracked or deformed.
2. Install the passenger's airbag module.



3. Install the instrument panel assembly.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Assembly>INSTALLATION.](#)
4. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)

## AIRBAG SYSTEM > Side Airbag Module





### REMOVAL



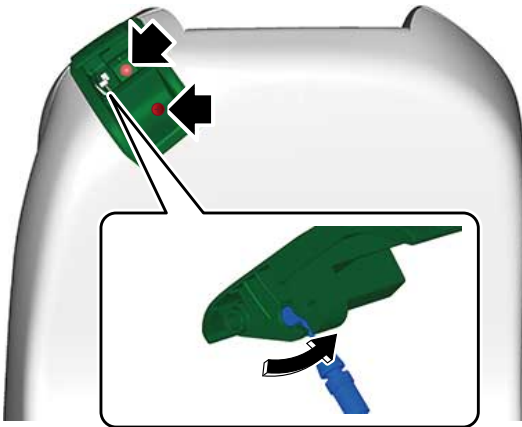
#### Caution:

Refer to "CAUTION" of "General Description" before handling the airbag system components.

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the front seats.  [Ref. to SEATS>Front Seat>REMOVAL.](#)
4. Remove the belt assembly front INN.  [Ref. to SEAT BELT SYSTEM>Front Seat Belt>REMOVAL > BELT ASSEMBLY FRONT INN.](#)
5. Separate the backrest assembly and the seat cushion assembly.  [Ref. to SEATS>Front Seat>DISASSEMBLY.](#)
6. Remove the lever walk-in.
  - (1) Open the cover and remove the screw.
  - (2) Remove the cable walk-in and lever walk-in.

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SE-11470

- (3) Remove the cover walk-in.

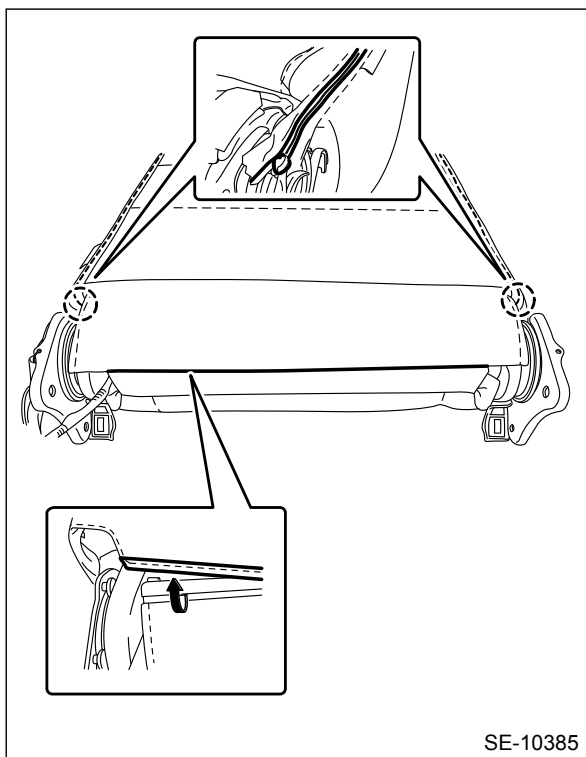


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SE-11471

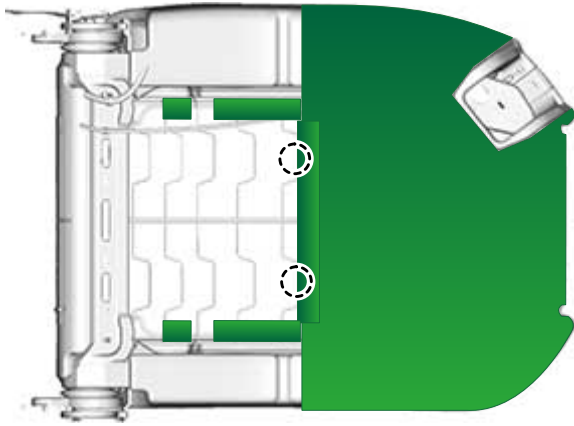
- 7.** Remove the seat pad assembly backrest and the cover front seat backrest.
- (1) Remove the plastic fastener at the back side (bottom) of backrest assembly.
  - (2) Open the fastener at the rear side of backrest assembly.



SE-10385

- (3) Remove the hog ring.

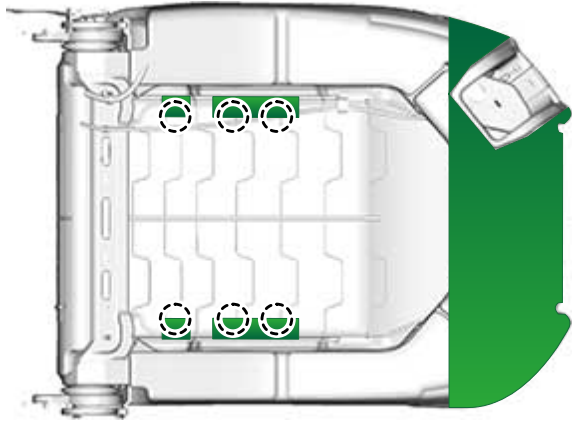
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SE-11472

(4) Remove the hog ring.

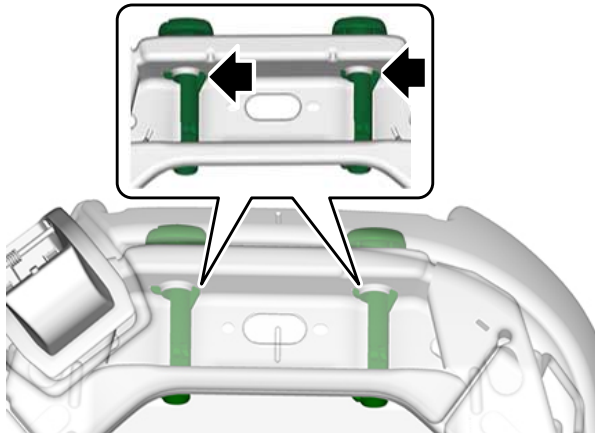
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SE-11473

(5) Remove the bushing headrest.

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SE-11583

(6) Remove the seat pad assembly backrest and the cover front seat backrest from the seat backrest assembly.

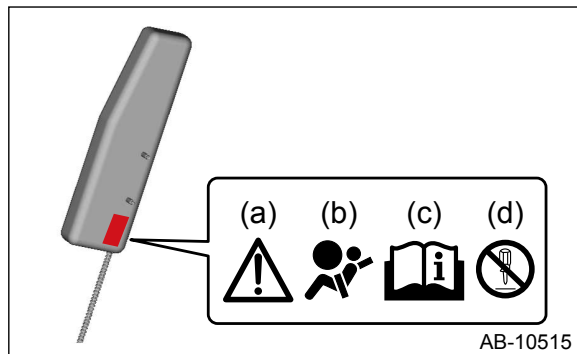
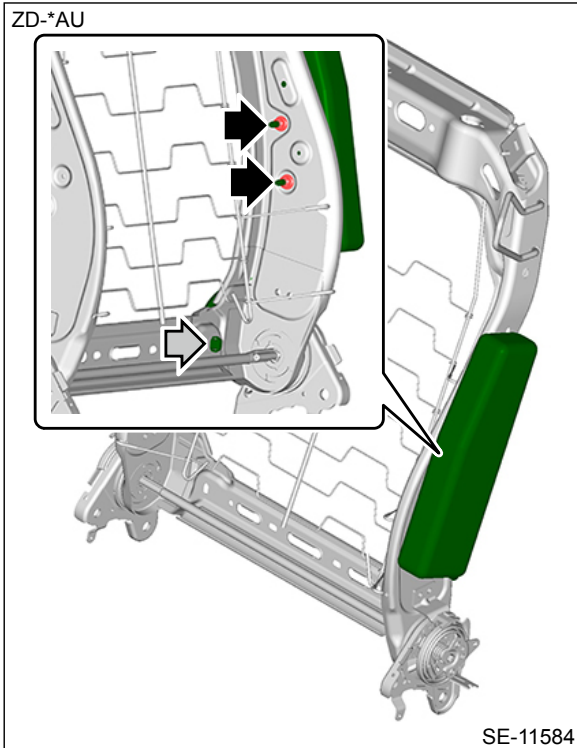
(7) Remove the cable walk-in.

**8.** Remove the side airbag module.

**Caution:**

**Do not open the protective cover of the side airbag module. If any damage is present in the protective cover or the cloth of side airbag module comes out from the protective cover slit, replace the side airbag module with a new part.**

- (1) Remove the self-locking nut.
- (2) While taking care not to damage the airbag protective cover, remove the side airbag module.



Meaning of pictograms indicated on the label

- (a) Flammable explosive substance encapsulated parts; be careful of handling.
- (b) Indicates that this part is an airbag module.
- (c) Before handling, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" in the service manual.  
For the disposal procedures of the airbag modules, refer to "Airbag Module Disposal".
- (d) Do not disassemble the airbag module.

## INSTALLATION

### Caution:

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

1. Before installation, inspect the following items and replace any faulty part with a new one.
  - Make sure that there is no foreign matter on side airbag module.
  - Front seat, airbag module and mounting bracket are damaged or deformed.
  - Harness and/or connector is cracked, deformed or open.
  - Harness wire is exposed.
2. Using a new self-locking nut, install the side airbag module.





### Tightening torque:

6 N·m (0.6 kgf-m, 4.4 ft-lb)

3. Assemble the front seat.  [Ref. to SEATS>Front Seat>ASSEMBLY.](#)

### Caution:

**After restoring the seat, operate the reclining and sliding mechanisms to check that the side airbag harness is not caught.**



4. Install the belt assembly front INN.  [Ref. to SEAT BELT SYSTEM>Front Seat Belt>INSTALLATION > BELT ASSEMBLY FRONT INN.](#)
5. Install the front seat.  [Ref. to SEATS>Front Seat>INSTALLATION.](#)
6. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
7. If the passenger's seat is removed, perform [Rezeroing] in the occupant detection system.  [Ref. to AIRBAG\(DIAGNOSTICS\)>Rezero.](#)

## AIRBAG SYSTEM > Curtain Airbag Module

### REMOVAL


#### Caution:

Always refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

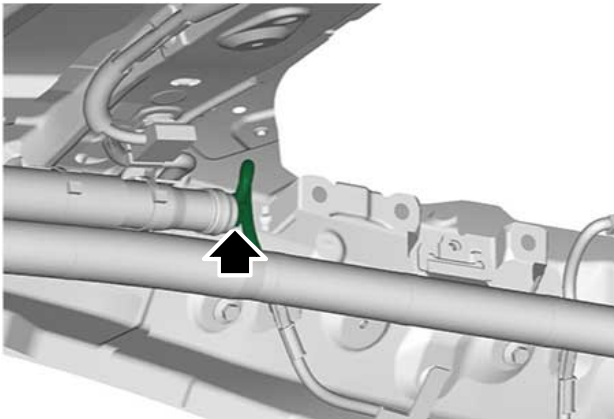
1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the trim panel roof assembly.  [Ref. to EXTERIOR/INTERIOR TRIM>Roof Trim>REMOVAL.](#)
4. Remove the curtain airbag module.

#### Caution:

- Be careful not to damage the curtain airbag module during removal.
- Never open the curtain airbag module before activation. Never reuse the deployed curtain airbag module.

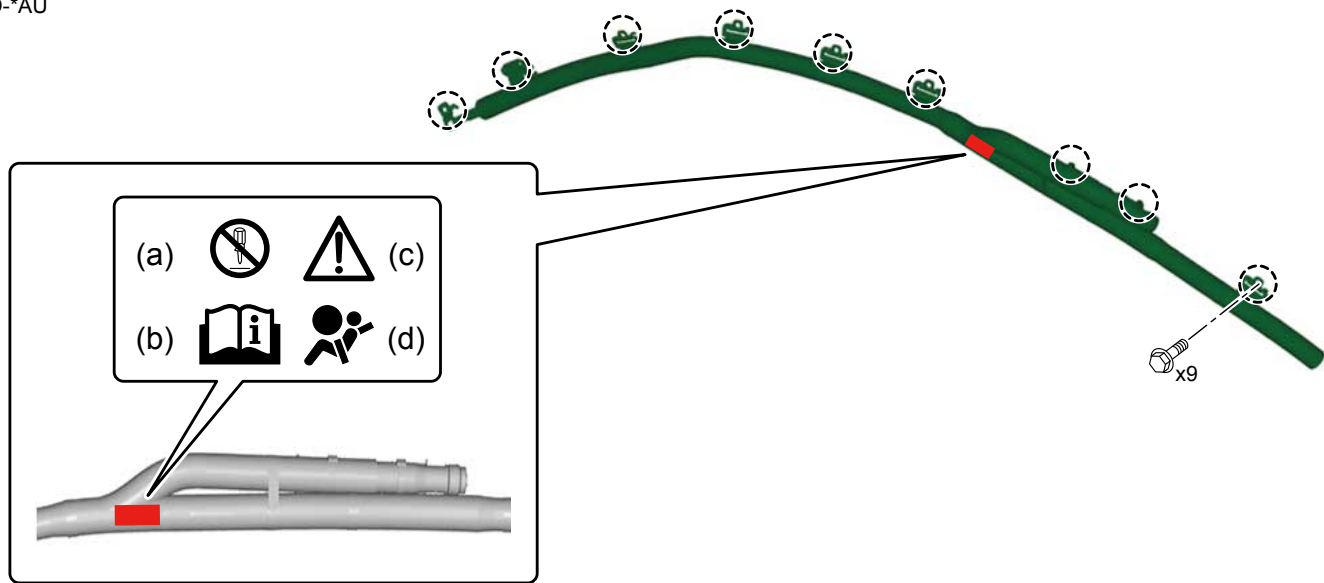
- (1) Disconnect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)

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AB-11902

- (2) Remove the bolt, and remove the curtain airbag module.




Meaning of pictograms indicated on the label

- (a) Do not disassemble the airbag module.
- (b) Before handling, always refer to "CAUTION" of "General Description" in "AIRBAG SYSTEM" in the service manual.  
For the disposal procedures of the airbag modules, refer to "Airbag Module Disposal".
- (c) Flammable explosive substance encapsulated parts; be careful of handling.
- (d) Indicates that this part is an airbag module.

## AIRBAG SYSTEM > Curtain Airbag Module

### INSTALLATION

#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- When installing the curtain airbag module, install a specified part at specified place.
- Be careful not to damage the curtain airbag module during installation.
- Make sure that there are no foreign matter on airbag module.




1. Before installation, inspect the following items and replace any faulty part with a new one.
  - Airbag cover is scratched or torn.
  - The tap wrapped around the airbag is cut or broken.
  - Harness and/or connector is cracked, deformed or open.
  - Harness wire is exposed.
  - Mounting bracket is cracked or deformed.
2. Install the curtain airbag module.

**Caution:**

**Make sure that the curtain airbag module is installed so that it is not twisted 360° partially.**

**Tightening torque:**

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)


- 3.** Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
- 4.** Install the trim panel roof assembly.  [Ref. to EXTERIOR/INTERIOR TRIM>Roof Trim>INSTALLATION.](#)
- 5.** Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)










## AIRBAG SYSTEM > Airbag Control Module

### REMOVAL

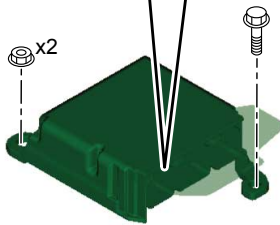
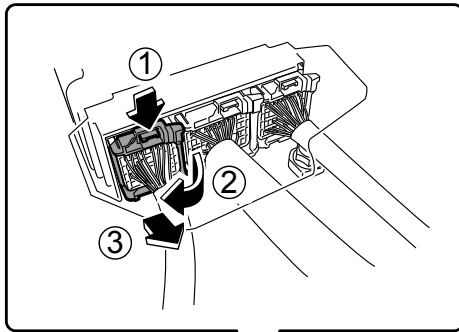


#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not disassemble the airbag control module.
- If the airbag control module is deformed or if there is any trace of water on the module, replace the airbag control module with a new one.
- Do not drop the airbag control module.
- After removal, keep the airbag control module on a dry, clean surface away from moisture, heat and dust.

1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
2. Remove the boot assembly parking brake and the console box assembly.  [Ref. to EXTERIOR/INTERIOR TRIM>Console Box>REMOVAL.](#)
3. Remove the cover center side.  [Ref. to EXTERIOR/INTERIOR TRIM>Center Console>REMOVAL.](#)
4. Remove the cover LWR driver INN.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Lower Cover>REMOVAL > INSIDE.](#)
5. Remove the cover assembly instrument panel side RH and the panel center UPR assembly.  [Ref. to AIR CONDITIONER>Air Vent Grille>REMOVAL > CENTER GRILLE.](#)
6. Remove the center information display assembly.  [Ref. to ENTERTAINMENT & MONITORING>Cockpit Display>REMOVAL.](#)
7. Remove the heater control assembly.  [Ref. to AIR CONDITIONER>Control Panel>REMOVAL.](#)
8. Remove the speaker assembly sound creator.  [Ref. to ACTIVE SOUND CONTROL>Active Sound Control Speaker>REMOVAL.](#)
9. Remove the airbag control module.
  - (1) Disconnect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > AIRBAG CONTROL MODULE.](#)
  - (2) Remove the flange bolt and nuts and remove the airbag control module.






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## AIRBAG SYSTEM > Airbag Control Module

### INSTALLATION

#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Do not disassemble the airbag control module.
- If the airbag control module is deformed or if there is any trace of water on the module, replace the airbag control module with a new one.
- Do not drop the airbag control module.
- After removal, keep the airbag control module on a dry, clean surface away from moisture, heat and dust.


**1.** Before installation, inspect the following items and replace any faulty part with a new part.

- Control module is deformed.
- Control module connector is damaged.

**2.** Using new flange bolt and nuts, install the airbag control module.

#### Tightening torque:

25 N·m (2.5 kgf-m, 18.4 ft-lb)







**3.** Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > AIRBAG CONTROL MODULE.](#)

**4.** Install the speaker assembly sound creator.  [Ref. to ACTIVE SOUND CONTROL>Active Sound Control Speaker>INSTALLATION.](#)

**5.** Install the heater control assembly.  [Ref. to AIR CONDITIONER>Control Panel>INSTALLATION.](#)

**6.** Install the center information display assembly.  [Ref. to ENTERTAINMENT & MONITORING>Cockpit](#)

[Display>INSTALLATION.](#)

- 7.** Install the panel center UPR assembly and cover assembly instrument panel side RH.  [Ref. to AIR CONDITIONER>Air Vent Grille>INSTALLATION > CENTER GRILLE.](#)
- 8.** Install the cover LWR driver INN.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Lower Cover>INSTALLATION > INSIDE.](#)
- 9.** Install the cover center side.  [Ref. to EXTERIOR/INTERIOR TRIM>Center Console>INSTALLATION.](#)
- 10.** Install the console box assembly and the boot assembly parking brake.  [Ref. to EXTERIOR/INTERIOR TRIM>Console Box>INSTALLATION.](#)
- 11.** Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
- 12.** When the airbag control module is replaced, perform [Rezeroing] in the occupant detection system.  [Ref. to AIRBAG\(DIAGNOSTICS\)>Rezero.](#)

### REMOVAL





#### 1. Front impact sensor

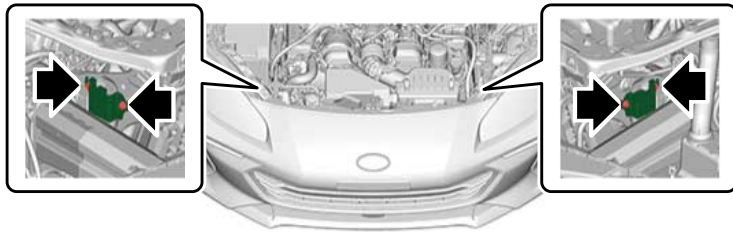
##### Caution:

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 **Ref. to AIRBAG SYSTEM>General Description>CAUTION.**

1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  **Ref. to REPAIR CONTENTS>NOTE > BATTERY.**
2. Remove the Front impact sensor.
  - (1) Remove the flange bolt, and then remove Front impact sensor.
  - (2) Disconnect the airbag connector.  **Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > EACH IMPACT SENSOR.**


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#### 2. Side impact sensor (front door)

##### Caution:

- **Refer to "CAUTION" of "General Description" before handling the airbag system components.**  **Ref. to AIRBAG SYSTEM>General Description>CAUTION.**
- **When Side impact sensor (front door) is removed, always replace Side impact sensor (front door) with a new part. If it is reused, sealing capability on the contacting surface of door panel may be insufficient and impact pressure may not be detected correctly.**

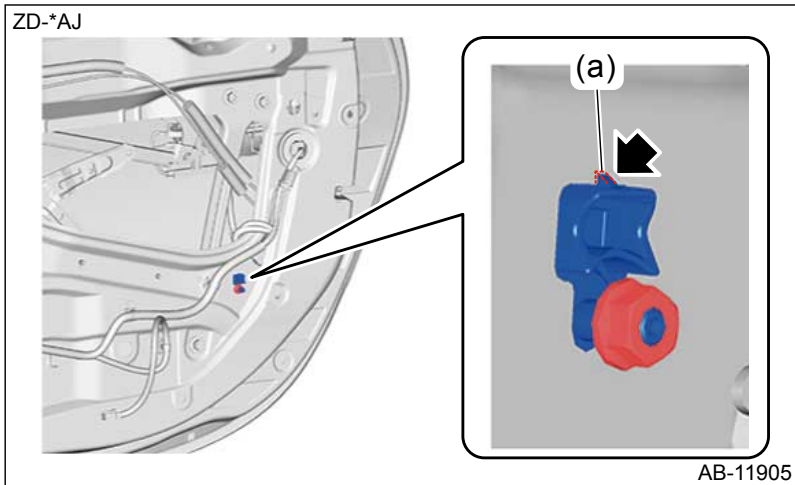
1. Operate the power window switch to close the front door glass.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  **Ref. to REPAIR CONTENTS>NOTE > BATTERY.**
3. Remove the trim panel front door.  **Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>REMOVAL.**
4. Remove the sealing cover door front.  **Ref. to EXTERIOR BODY PANELS>Sealing Cover>REMOVAL.**

## 5. Remove the Side impact sensor (front door) .

### Caution:

- **Do not reuse Side impact sensor (front door) that have been removed. Always replace Side impact sensor (front door) with a new part.**
- **The nuts cannot be removed from Side impact sensor (front door) . Do not remove the mounting nuts.**

- (1) Disconnect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > SIDE IMPACT SENSOR \(FRONT DOOR\)](#) .
- (2) Loosen the nuts, and remove Side impact sensor (front door) with the claws (a) pressed.










## 3. Side impact sensor (center pillar)

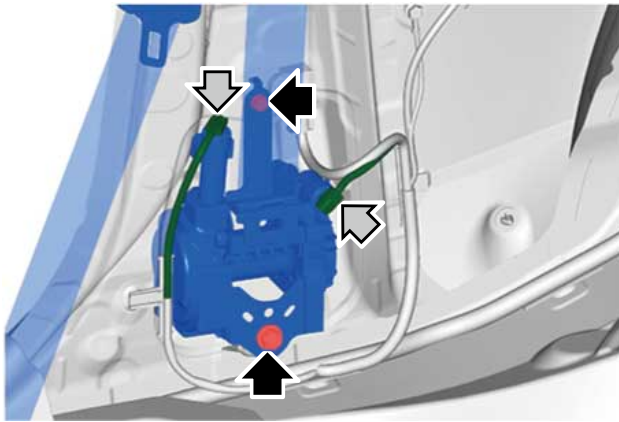
### Caution:

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)


1. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
2. Remove the cushion assembly rear seat and the backrest assembly rear seat.  [Ref. to SEATS>Rear Seat>REMOVAL.](#)
3. Remove the cover side sill front Rr and the cover side sill front Ft.  [Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>REMOVAL.](#)
4. Remove the weather strip body side flange front.  [Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT.](#)
5. Remove the trunk trim panel side.  [Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>REMOVAL.](#)
6. Remove the trim panel assembly quarter.  [Ref. to EXTERIOR/INTERIOR TRIM>Rear Quarter Trim>REMOVAL.](#)
7. Remove the seat belt retractor.
  - (1) Disconnect connector of the pretensioner.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
  - (2) Remove the bolt to remove the seat belt retractor.

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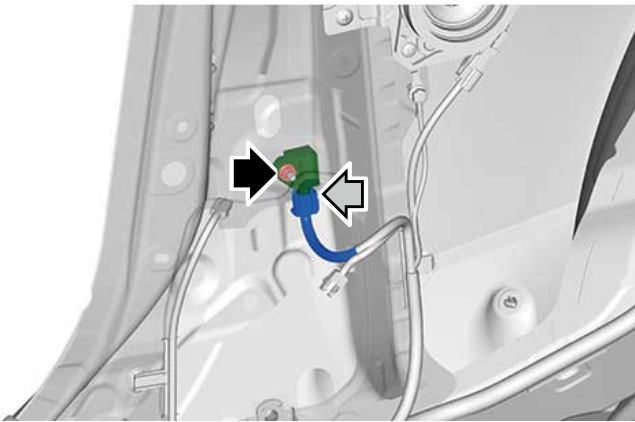


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**8. Remove the Side impact sensor (center pillar).**

- (1) Remove the nut, and remove the side impact sensor (center pillar).
- (2) Disconnect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > EACH IMPACT SENSOR.](#)

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**4. Side impact sensor (rear wheel house)**

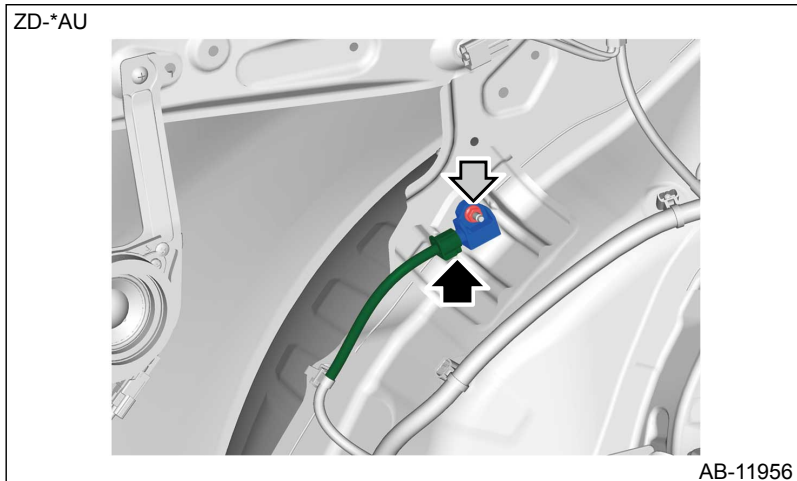
**Caution:**

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

- 1.** Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
- 2.** Remove the cushion assembly rear seat and the backrest assembly rear seat.  [Ref. to SEATS>Rear Seat>REMOVAL.](#)
- 3.** Remove the cover side sill front Rr and the cover side sill front Ft.  [Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>REMOVAL.](#)
- 4.** Remove the weather strip body side flange front.  [Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT.](#)
- 5.** Remove the trunk trim panel side.  [Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>REMOVAL.](#)

6. Remove the trim panel assembly quarter.  [Ref. to EXTERIOR/INTERIOR TRIM>Rear Quarter Trim>REMOVAL.](#)
7. Remove the Side impact sensor (rear wheel house).
  - (1) Disconnect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > EACH IMPACT SENSOR.](#)
  - (2) Remove the nut, and remove the side impact sensor (rear wheel house).



## AIRBAG SYSTEM > Impact Sensor

### INSTALLATION



#### 1. Front impact sensor

##### Caution:

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

1. Before installation, inspect the following items and replace any faulty part with a new part.
  - Front impact sensor is free from damage.
  - Connector is free from damage.
2. Using a new flange bolt, install Front impact sensor.

**Tightening torque:**  
13 N·m (1.3 kgf-m, 9.6 ft-lb)
3. Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > EACH IMPACT SENSOR.](#)
4. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)

#### 2. Side impact sensor (front door)

##### Caution:

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

1. Before installation, inspect the following items and replace any faulty part with a new part.

- Side impact sensor (front door) or connector is damaged.
- Inner panel area of the panel COMPL door front is deformed.
- Side airbag module has been activated.





**2.** Attach the Side impact sensor (front door) .

**Caution:**

- **Do not reuse Side impact sensor (front door) that have been removed. Always replace Side impact sensor (front door) with a new part.**
- **The nuts cannot be removed from Side impact sensor (front door) . Do not remove the mounting nuts.**
- **Thoroughly clean the sensor mounting area before installing the Side impact sensor (front door) .**
- **When installing Side impact sensor (front door) , be sure to fix the claws of Side impact sensor (front door) into the door panel.**

**Tightening torque:**

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)


- 3.** Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > SIDE IMPACT SENSOR \(FRONT DOOR\).](#)
- 4.** Install the sealing cover door front.  [Ref. to EXTERIOR BODY PANELS>Sealing Cover>INSTALLATION.](#)
- 5.** Install the trim panel front door.  [Ref. to EXTERIOR/INTERIOR TRIM>Door Trim>INSTALLATION.](#)
- 6.** Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)

### **3. Side impact sensor (center pillar)**

**Caution:**

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

- 1.** Before installation, inspect the following items and replace any faulty part with a new part.
  - Side impact sensor (center pillar) or connector is damaged.
  - Side airbag module has been activated.
- 2.** Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > EACH IMPACT SENSOR.](#)
- 3.** Using a new nut, install Side impact sensor (center pillar).

**Caution:**


**When installing the sensor, insert the set pin on the backside of the sensor into the hole on the body side securely.**

**Tightening torque:**






7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

- 4.** Install the seat belt retractor.

**Tightening torque:**

Seat belt retractor:  [Ref. to SEAT BELT SYSTEM>General Description>COMPONENT > FRONT SEAT BELT.](#)

- 5.** Install the trim panel assembly quarter.  [Ref. to EXTERIOR/INTERIOR TRIM>Rear Quarter Trim>INSTALLATION.](#)

6. Install the trunk trim panel side.  [Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>INSTALLATION.](#)
7. Install the weather strip body side flange front.  [Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT.](#)
8. Install the cover side sill front Ft and the cover side sill front Rr.  [Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>INSTALLATION.](#)
9. Install the backrest assembly rear seat and the cushion assembly rear seat.  [Ref. to SEATS>Rear Seat>INSTALLATION.](#)
10. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)

#### 4. Side impact sensor (rear wheel house)

##### Caution:

**Refer to "CAUTION" of "General Description" before handling the airbag system components.**

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)








1. Before installation, inspect the following items and replace any faulty part with a new one.
  - Side impact sensor (rear wheel house) or connector is damaged.
  - Curtain airbag module has been activated.
2. Using a new nut, install Side impact sensor (rear wheel house).

##### Caution:

**When installing the sensor, insert the set pin on the backside of the sensor into the hole on the body side securely.**

##### Tightening torque:

7.5 N·m (0.8 kgf-m, 5.5 ft-lb)

3. Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > EACH IMPACT SENSOR.](#)
4. Install the trim panel assembly quarter.  [Ref. to EXTERIOR/INTERIOR TRIM>Rear Quarter Trim>INSTALLATION.](#)
5. Install the trunk trim panel side.  [Ref. to EXTERIOR/INTERIOR TRIM>Trunk Room Trim>INSTALLATION.](#)
6. Install the weather strip body side flange front.  [Ref. to EXTERIOR BODY PANELS>Weather Strip>REPLACEMENT.](#)
7. Install the cover side sill front Ft and the cover side sill front Rr.  [Ref. to EXTERIOR/INTERIOR TRIM>Lower Inner Trim>INSTALLATION.](#)
8. Install the backrest assembly rear seat and the cushion assembly rear seat.  [Ref. to SEATS>Rear Seat>INSTALLATION.](#)
9. Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)







## AIRBAG SYSTEM > Roll Connector

### REMOVAL

#### Caution:


Refer to "CAUTION" of "General Description" before handling the airbag system components.

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

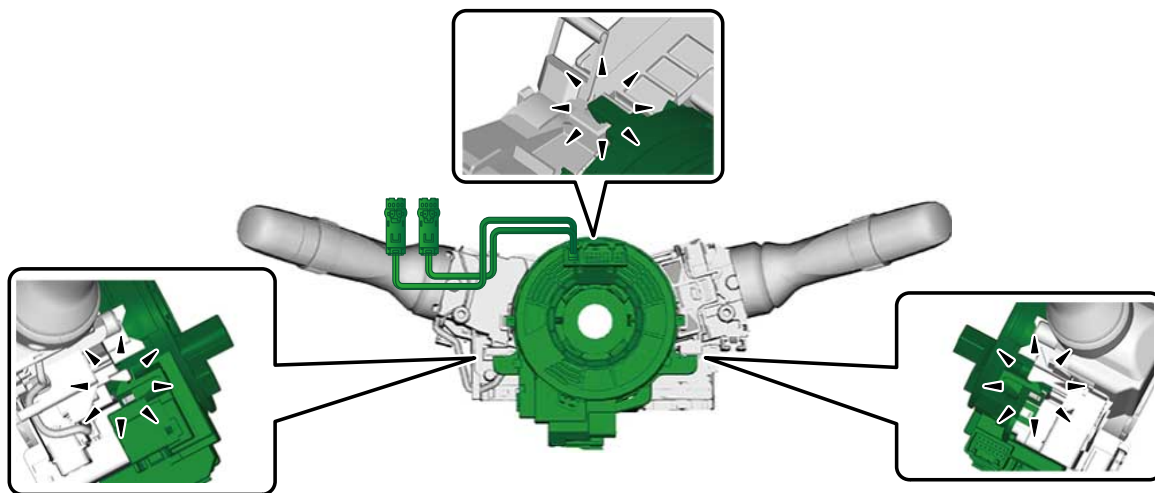
1. Set the steering wheel to the straight-ahead position.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the driver's airbag module.  [Ref. to AIRBAG SYSTEM>Driver's Airbag Module>REMOVAL.](#)
4. Remove the steering wheel assembly.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Wheel>REMOVAL.](#)
5. Remove the column cover assembly.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Column>REMOVAL.](#)
6. Remove the steering roll connector assembly.

#### Caution:

Make sure that the steering roll connector is not turned from the original position.

- (1) Disconnect the connector under the steering roll connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > STEERING ROLL CONNECTOR.](#)
- (2) Release the claws and remove the steering roll connector assembly.

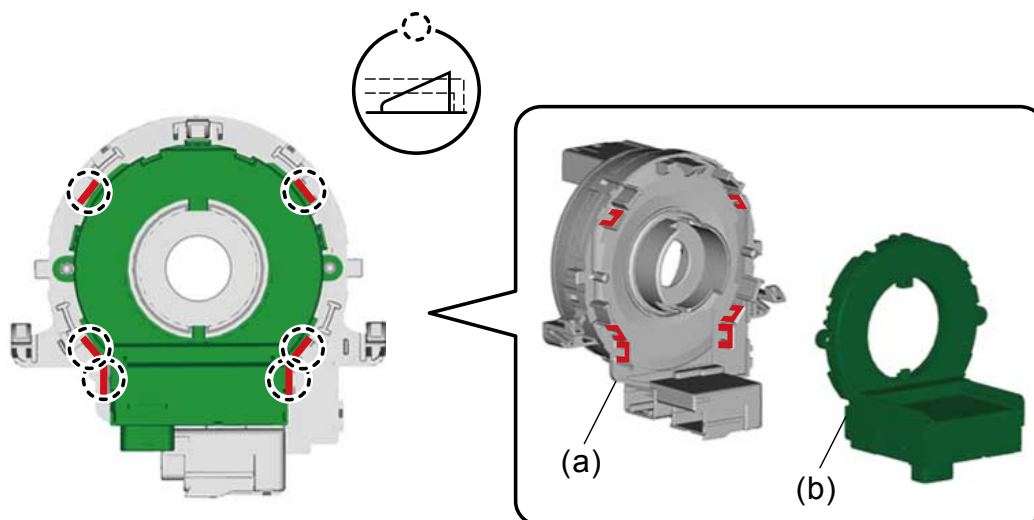
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7. Remove the sensor assembly VSC (VDC) steering.
  - (1) Release the claws and remove the sensor assembly VSC (VDC) steering (b) from the steering roll connector (a).

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VDC10748

## AIRBAG SYSTEM > Roll Connector

### INSTALLATION

#### Caution:

Refer to "CAUTION" of "General Description" before handling the airbag system components.

 [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

#### 1. Install the steering roll connector.

- (1) Before attaching a new steering roll connector, apply a thin coat of grease.

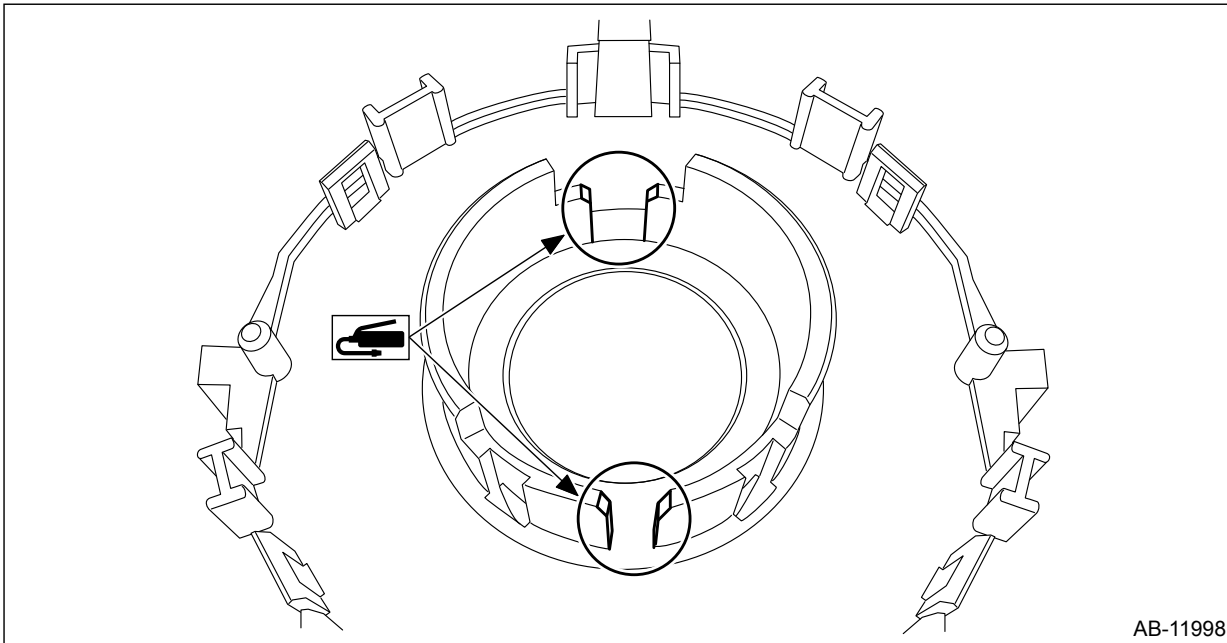
#### Note:

If the steering roll connector is reused, check the grease amount.


If grease is insufficient, additionally apply it.

#### Preparation items:

Grease: An item contained in the steering roll connector, KYODO YUSHI Multemp L or equivalent



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(2) When reusing the steering roll connector, align the neutral position.  [Ref. to AIRBAG SYSTEM>Roll Connector>ADJUSTMENT.](#)

(3) Align the position of the protrusion and install the sensor assembly VSC (VDC) steering to the steering roll connector.

**Caution:**

**Do not rotate the steering angle sensor protrusion.**

**2.** Install the steering roll connector assembly.

**Note:**

**Before attaching a new steering roll connector, confirm that the position is in neutral, and snap off the neutral pin.**


**3.** Connect the airbag connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > STEERING ROLL CONNECTOR.](#)

**4.** Install the column cover assembly.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Column>INSTALLATION.](#)

**5.** Install the steering wheel assembly.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Wheel>INSTALLATION.](#)

**6.** Install the driver's airbag module.  [Ref. to AIRBAG SYSTEM>Driver's Airbag Module>INSTALLATION.](#)

**7.** Connect the ground terminal to battery sensor.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)

**8.** Perform VSC (VDC) sensor midpoint setting mode.  [Ref. to VEHICLE STABILITY CONTROL>VSC \(VDC\) Control Module and Hydraulic Control Unit \(VSCCM&H/U\)>ADJUSTMENT > VSC \(VDC\) SENSOR MIDPOINT SETTING MODE.](#)

## AIRBAG SYSTEM > Roll Connector

### INSPECTION

**Caution:**

Refer to "CAUTION" of "General Description" before handling the airbag system components.



[Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)

## 1. VISUAL INSPECTION

Check for the following, and replace the damaged parts with new parts.


- Combination switch is cracked or deformed.
- Steering roll connector is cracked or deformed.

## 2. UNIT INSPECTION

### STEERING ROLL CONNECTOR CIRCUIT (EXCEPT FOR AIRBAG CIRCUIT)

**Caution:**

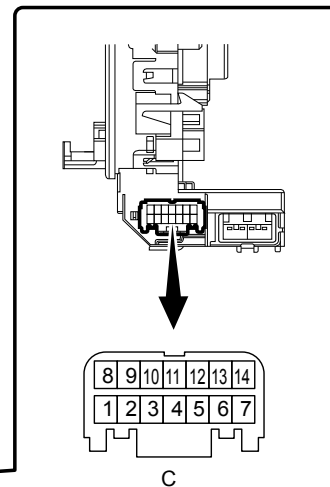
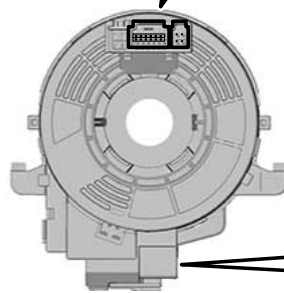
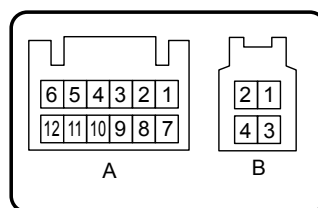
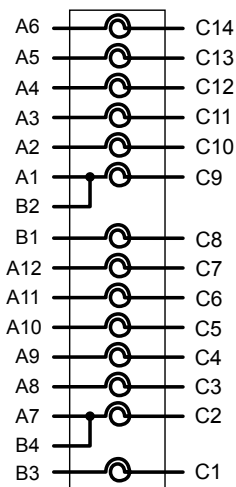
- Do not rotate the steering roll connector to more than the specified number of turns. Otherwise, the roll connector internal wire may be broken.
- When determining the end stop, rotate the connector slowly without applying excessive force. Applying excessive force at the end stop may break the internal wire.

1. Adjust the steering roll connector.  [Ref. to AIRBAG SYSTEM>Roll Connector>ADJUSTMENT.](#)
2. Set the steering roll connector to the central position.
3. With the following conditions, check the resistance between the connector terminals.
  - Perform the check with the steering roll connector centered (front wheels direct straightforward).
  - Rotate the steering roll connector counterclockwise from the center (front wheels direct straightforward) to an end stop. Then, perform the check while rotating it clockwise to approximately 4.5 turns.

**Specification:**

Less than 1  $\Omega$

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4. Replace the steering roll connector if the inspection result is not within the standard value.

## AIRBAG CIRCUIT

### Caution:

- Do not rotate the steering roll connector to more than the specified number of turns. Otherwise, the roll connector internal wire may be broken.
- When determining the end stop, rotate the connector slowly without applying excessive force. Applying excessive force at the end stop may break the internal wire.

1. Adjust the steering roll connector.  [Ref. to AIRBAG SYSTEM>Roll Connector>ADJUSTMENT.](#)
2. Set the steering roll connector to the central position.
3. Connect ST1 to the connector B and ST2 to the connector C.

### Preparation tool:

ST1: TEST HARNESS N (98299SA000)

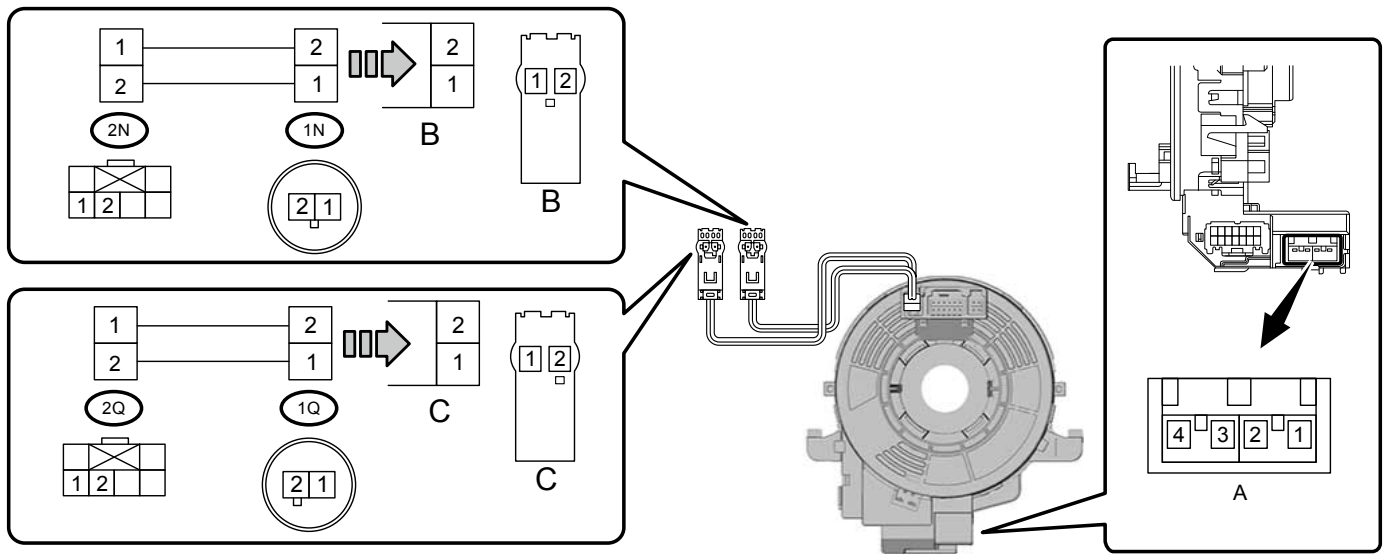
ST2: TEST HARNESS Q (98299SA040)

- Connector B - ST1 (1N)
  - Connector C - ST2 (1Q)
4. With the following conditions, check the resistance between the connector terminals of ST1 and ST2.
    - Perform the check with the steering roll connector centered (front wheels direct straightforward).
    - Rotate the steering roll connector counterclockwise from the center (front wheels direct straightforward) to an end stop. Then, perform the check while rotating it clockwise to approximately 4.5 turns.

### Note:

The connector A is designed to short the terminals A1/A2 and A3/A4 when disconnected.

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Terminal No.	Inspection conditions	Standard
(2N) No. 1 — (2N) No. 2	Always	Less than 1 $\Omega$
(2Q) No. 1 — (2Q) No. 2	Always	Less than 1 $\Omega$

5. Replace the steering roll connector if the inspection result is not within the standard value.

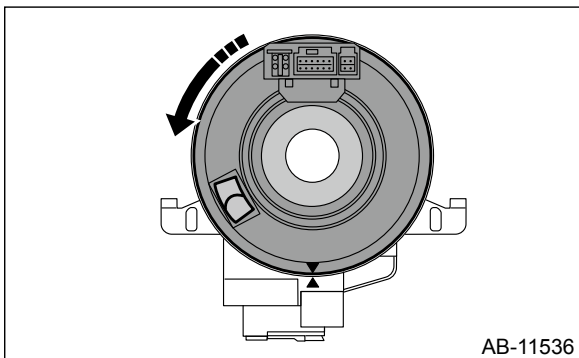
## ADJUSTMENT

### 1. NEUTRAL POSITION ADJUSTMENT

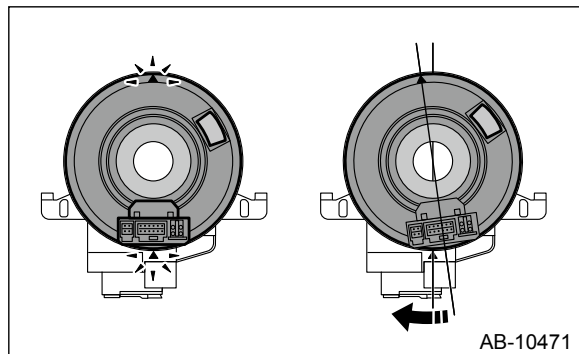
**Caution:**

- Do not rotate the steering roll connector to more than the specified number of turns. Otherwise, the roll connector internal wire may be broken.
- When determining the end stop, rotate the connector slowly without applying excessive force. Applying excessive force at the end stop may break the internal wire.

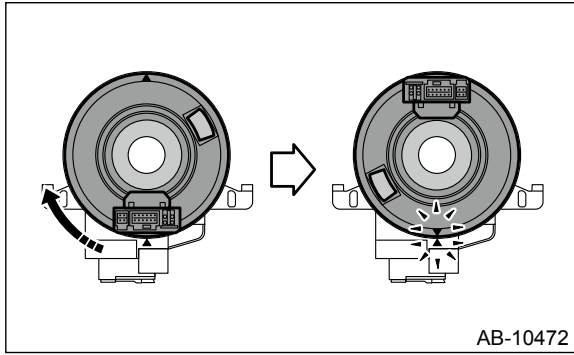
1. Check that front wheels are positioned in straight ahead direction.
2. Be sure to slowly rotate the steering roll connector counterclockwise until it stops.



3. If the connector passes the lowermost position when it stops rotating, return the connector to the lowermost position.

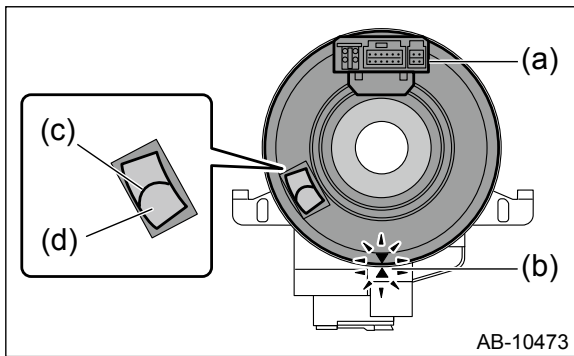


4. Make sure that the connector is at the lowermost position, and then rotate the steering roll connector clockwise by approx. 2.5 turns to return the connector to the uppermost position. The mark "▲" will be aligned.



**5.** Check the following items to make sure that the steering roll connector is at the neutral position.


- The connector (a) is at the uppermost position.
- The alignment mark (b) is aligned.
- The top (c) of the flat cable U-turn section can be seen from the sight glass (d).






## AIRBAG SYSTEM > Airbag Module Disposal (Deployment Processing on Vehicle)

### PROCEDURE

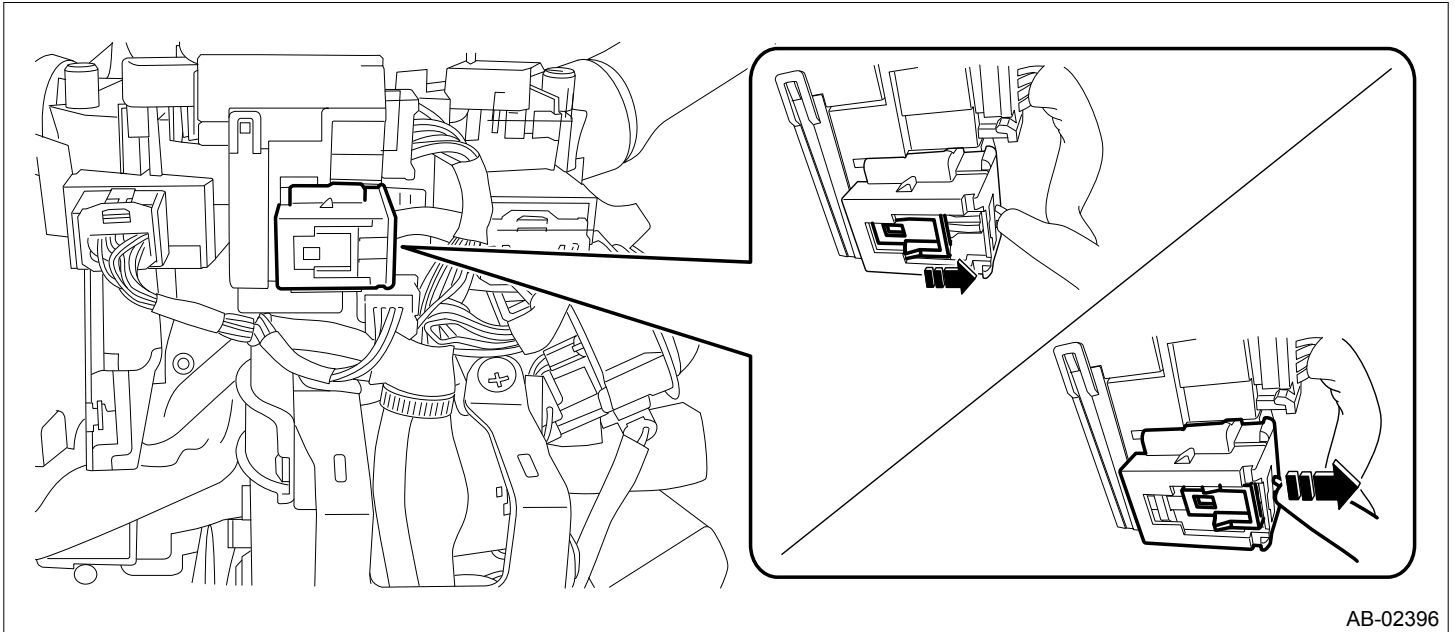
#### Caution:

- Refer to "CAUTION" of "General Description" before handling the airbag system components.  [Ref. to AIRBAG SYSTEM>General Description>CAUTION.](#)
- Before discarding an airbag module, always perform an operation process to prevent any false activation.
- Wear protective gloves, safety goggles and earplugs during this operation. Wash your hands afterwards.
- Do not touch the airbag module just after activation because it is very hot. Before handling it for disposal, wait for 40 minutes.
- As a rule, perform an airbag module operation process while it is installed to the vehicle. Do not remove it unless necessary.
- Airbag module operation process should be performed on a flat place in safety area. Do not perform the process outdoors when there is rain or strong wind.
- Activating an airbag module causes a high explosive noise, be sure to warn people in the area, and do not allow anyone within 5 m (16 ft) radius of the activation site.
- After activating the airbag module, smoke may arise. Therefore, it must be activated in a well-ventilated place with no smoke detector nearby.
- Do not expose the activated airbag module to water.
- Wrap the activated airbag module in a sealed vinyl bag when discarding.
- If it is impossible to perform an airbag module operation process due to some situational reasons, consult SUBARU dealership or one of the authorized workshops.

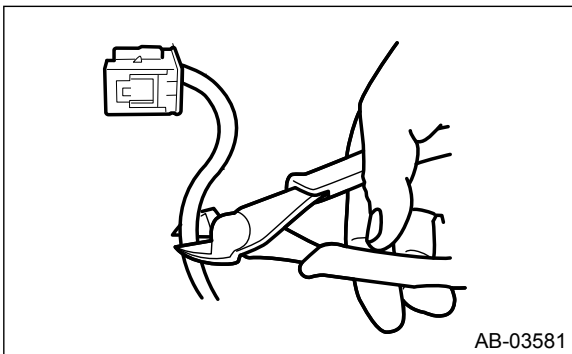
### 1. DRIVER'S AIRBAG MODULE

1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the column cover assembly.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Steering Column>REMOVAL.](#)
4. Disconnect the connector under the steering roll connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > STEERING ROLL CONNECTOR.](#)

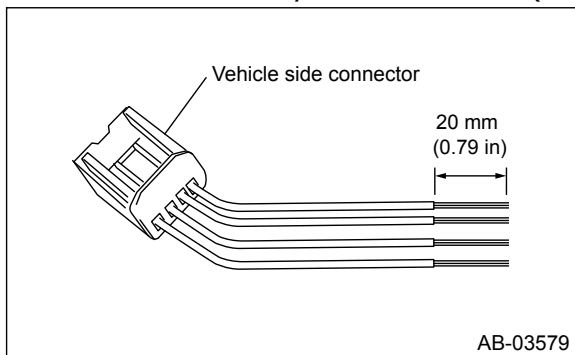




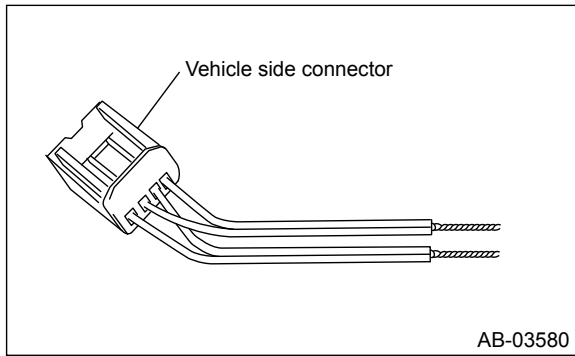
- 5.** Cut off the body harness approx. 70 mm (2.76 in) from the edge of the removed body side connector.



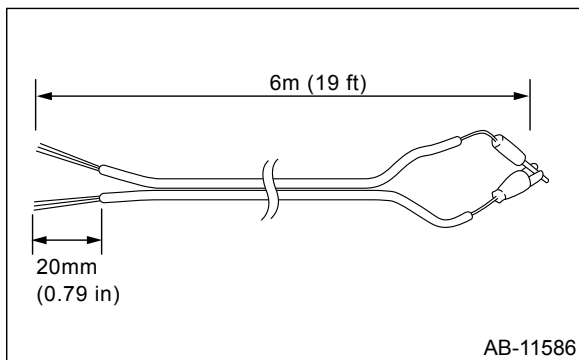
- 6.** Using a wire stripper or similar, peel off the shield (approx. 20 mm (0.79 in)) from the harnesses of the removed body side connector (at 4 locations).



- 7.** Twist the end of harness as shown in the figure.



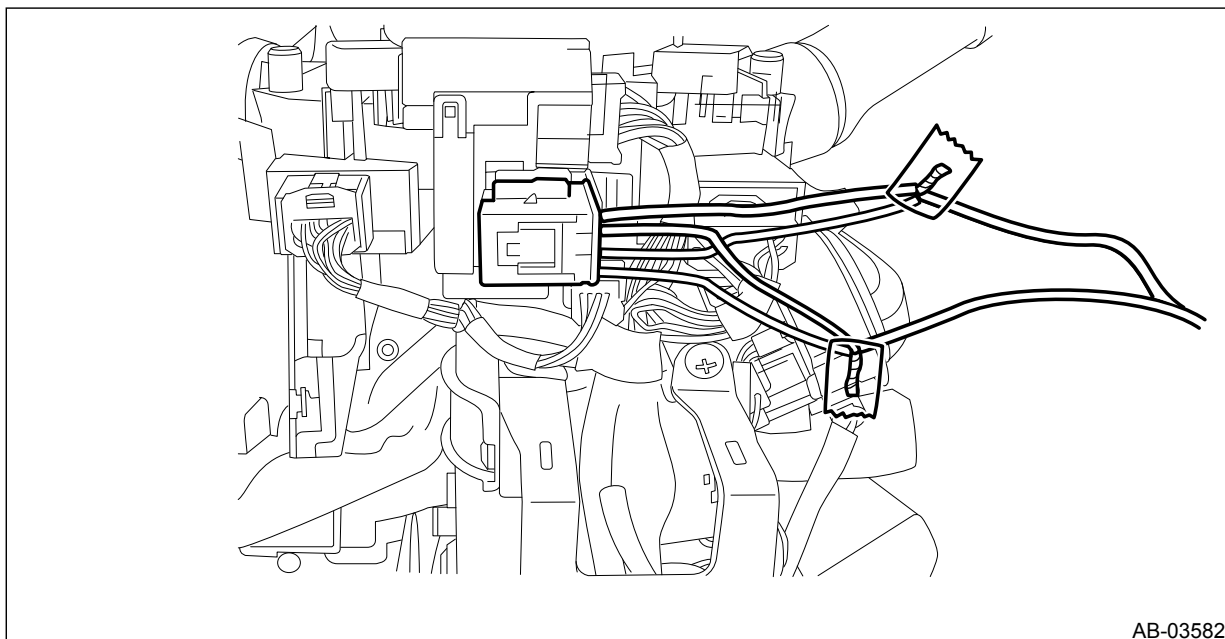
8. Prepare vinyl-shielded parallel wires of 6 m (19 ft) long. Peel off the ends of the shields of each wire approx. 20 mm (0.79 in), and fabricate one end of a wire into an alligator clip, and one end of the other wire into a terminal.
9. Short the terminal to the alligator clip.



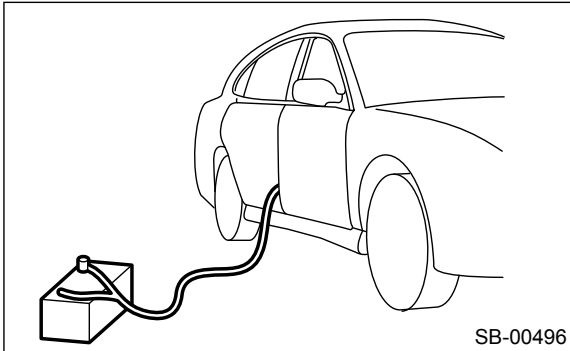
**Note:**

**No concern about polarity.**

10. Connect the other end of each wire to the harnesses of the modified body connector as shown in the figure, and insulate them with vinyl tape.
11. After completing the connecting work, connect the body side connector to the connector of the airbag connector lower side again.



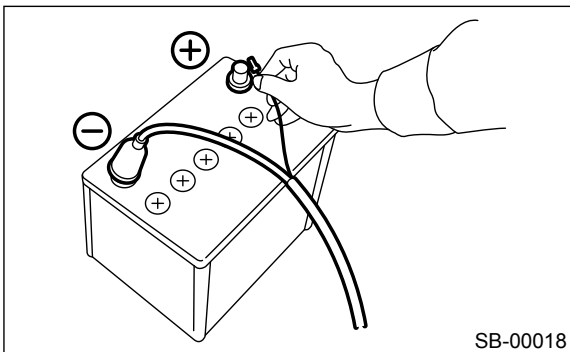
- 12.** Bring the vinyl-shielded parallel wire for operation out of the vehicle, and make sure there is no person in the vehicle.
- 13.** Extend the vinyl-shielded parallel wire prepared in the previous procedure to the limit, and close all the windows completely.



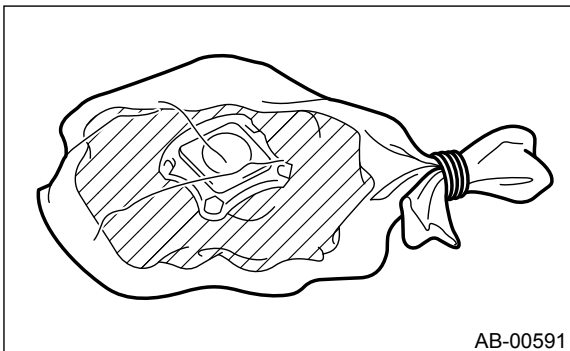
- 14.** Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.
- 15.** Connect the alligator clip of vinyl-shielded parallel wire to the battery negative (–) terminal.
- 16.** Connect the other terminal of vinyl-shielded parallel wire to the battery positive (+) terminal, and activate the airbag module.

**Caution:**




- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



- 17.** Remove the driver's airbag module.  [Ref. to AIRBAG SYSTEM>Driver's Airbag Module>REMOVAL.](#)
- 18.** Place the activated airbag module in a sealed vinyl bag, then discard.



## 2. KNEE AIRBAG MODULE

1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the cover LWR driver.  [Ref. to EXTERIOR/INTERIOR TRIM>Instrument Panel Lower Cover>REMOVAL.](#)
4. Disconnect the connector of knee airbag module.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
5. Activate the knee airbag module.

**Preparation tool:**

ST1: AIRBAG DEPLOYMENT TOOL (98299PA030)

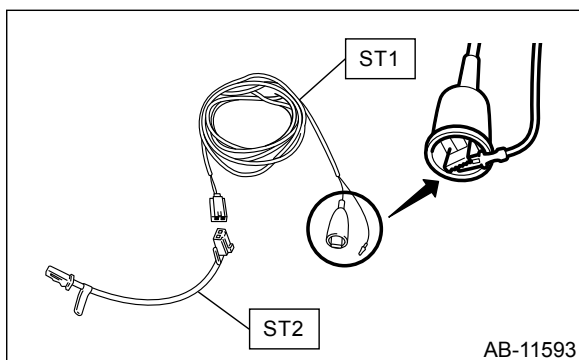
ST2: TEST HARNESS ADAPTER D (98299SA010)

- (1) Short the terminal to the alligator clip furnished as ST1.

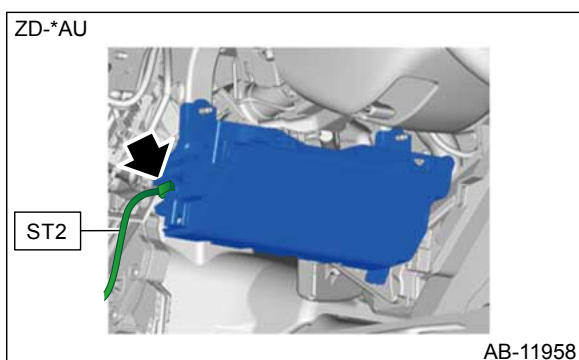
**Caution:**

**ST1 should be kept shorted on the terminals until just before activation of airbag module.**

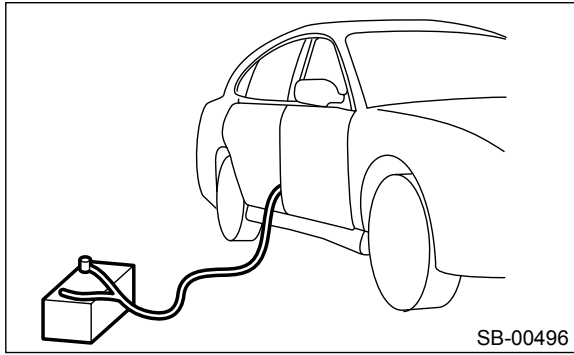
- (2) Connect the ST1 with ST2.



- (3) Connect the ST2 to the knee airbag module.



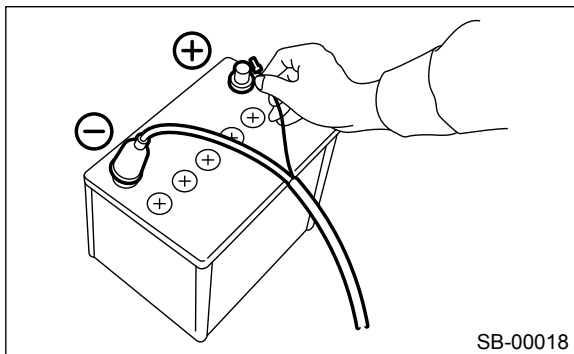
- (4) Make sure there is no one inside the vehicle.
- (5) Extend the wiring of ST1 to the limit, and close all the windows completely.



- (6) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.
- (7) Connect the ST1 alligator clip to the battery negative (–) terminal.
- (8) Connect the other cable of ST1 to the battery positive (+) terminal, and activate the airbag module.

**Caution:**

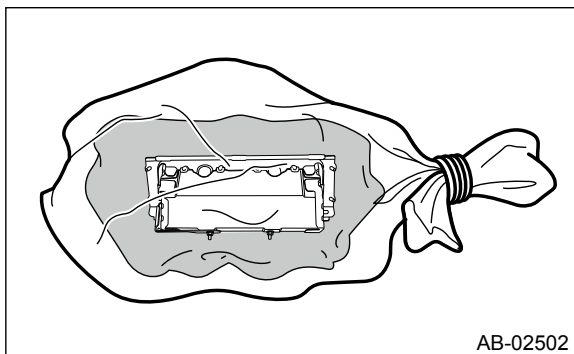
- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



6. Remove the knee airbag module.  [Ref. to AIRBAG SYSTEM>Knee Airbag Module>REMOVAL.](#)
7. Place the activated airbag module in a sealed vinyl bag, then discard.




**Note:**

**When necessary, fold the fabric part of airbag into three or four sections, rope and seal in a vinyl bag.**



### 3. PASSENGER'S AIRBAG MODULE

1. Turn the ignition switch to OFF.

2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the pocket COMPL.  [Ref. to EXTERIOR/INTERIOR TRIM>Glove Box>REMOVAL > GLOVE BOX LID.](#)
4. Disconnect the passenger's airbag module connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > PASSENGER'S AIRBAG MODULE.](#)
5. Operate the passenger's airbag module.

**Preparation tool:**

ST1: AIRBAG DEPLOYMENT TOOL (98299PA030)

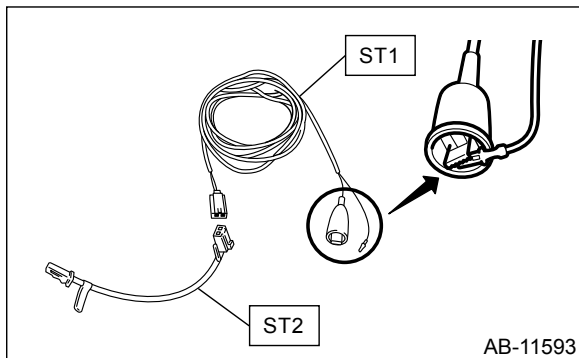
ST2: TEST HARNESS ADAPTER AM (98299FJ000)

- (1) Prepare two ST1s and short the terminal to the alligator clip furnished.

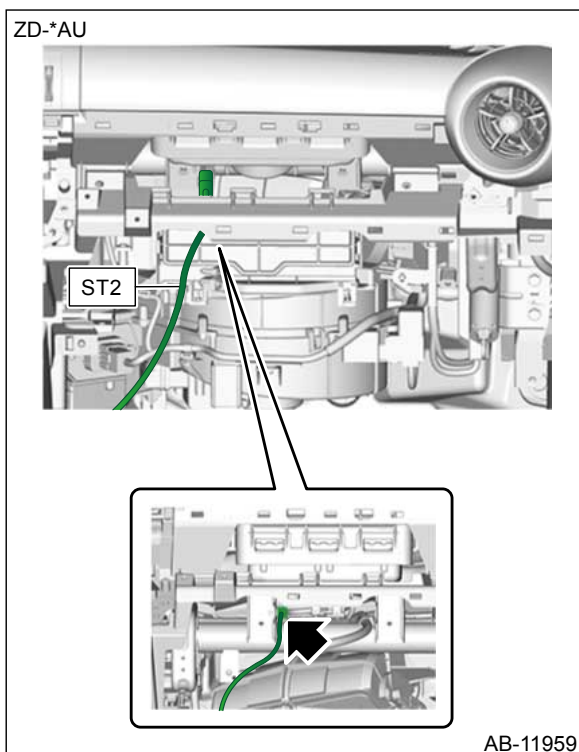
**Caution:**

**ST1 should be kept shorted on the terminals until just before activation of airbag module.**

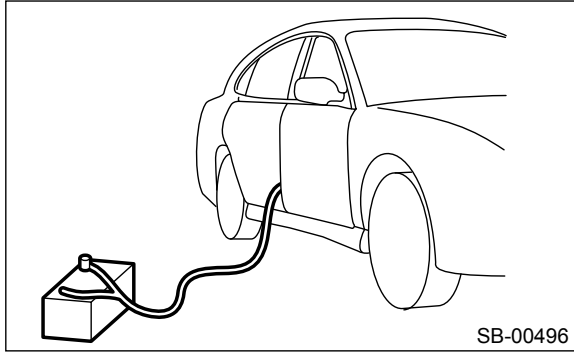
- (2) Connect the ST1 with ST2.



- (3) Connect ST2 to the airbag connector.



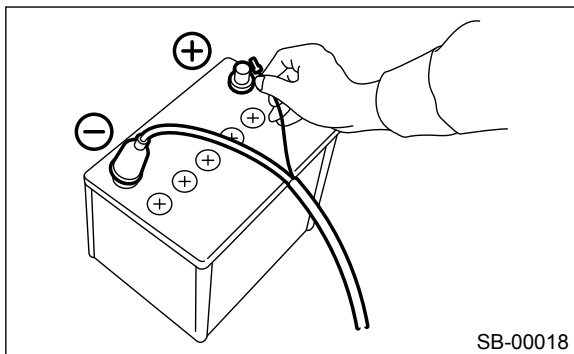
- (4) Make sure there is no one inside the vehicle.
- (5) Extend the wiring of ST1 to the limit, and close all the windows completely.




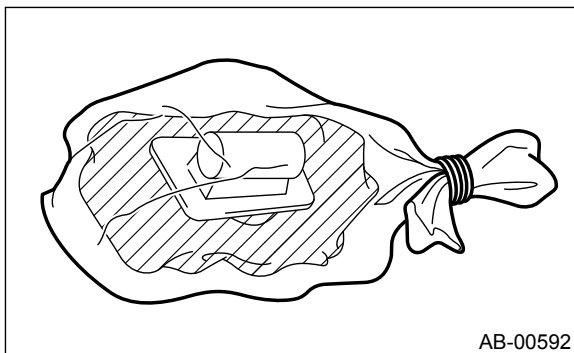
- (6) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.
- (7) Connect the ST1 alligator clip to the battery negative (–) terminal.
- (8) Connect the other cable of ST1 to the battery positive (+) terminal, and activate the airbag module.

**Caution:**

- **After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.**
- **Do not expose the activated airbag module to water.**





- 6.** Remove the passenger's airbag module.  [Ref. to AIRBAG SYSTEM>Passenger's Airbag Module>REMOVAL.](#)
- 7.** Place the activated airbag module in a sealed vinyl bag, then discard.



## 4. SIDE AIRBAG MODULE

- 1.** Turn the ignition switch to OFF.

2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the bolts that secure the front seat.
4. Disconnect the side airbag module connector under the front seat cushion.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > SIDE AIRBAG MODULE.](#)
5. Activate the side airbag module.

**Preparation tool:**

ST1: AIRBAG DEPLOYMENT TOOL (98299PA030)

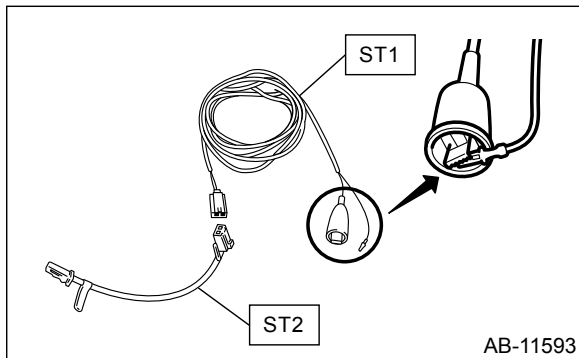
ST2: TEST HARNESS ADAPTER AR (98299CA000)

- (1) Short the terminal to the alligator clip furnished as ST1.

**Caution:**

**ST1 should be kept shorted on the terminals until just before activation of airbag module.**

- (2) Connect the ST1 with ST2.



- (3) Connect ST2 to the side airbag module connector.

**Caution:**

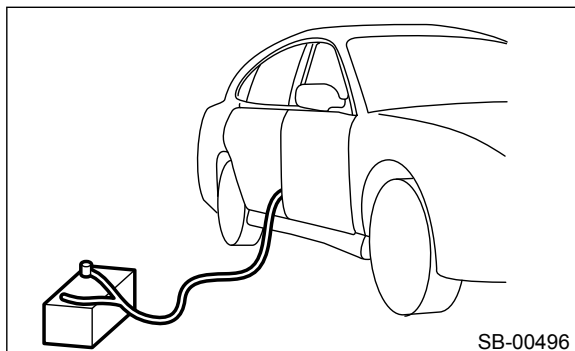
**Do not place any object on front seat.**

- (4) Tighten the front seat to the specified torque.

**Tightening torque:**

Front seat assembly: 53 N·m (5.4 kgf-m, 39.1 ft-lb)

- (5) Make sure there is no one inside the vehicle.
- (6) Extend the wiring of ST1 to the limit, and close all the windows completely.

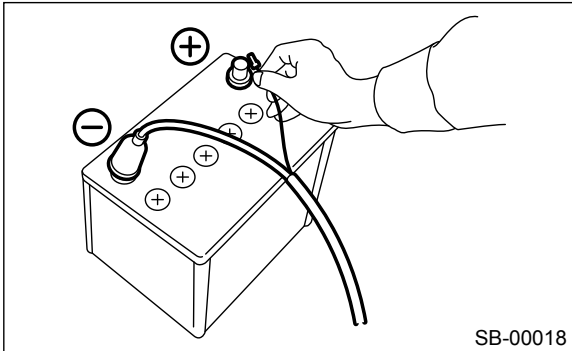


- (7) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.
- (8) Connect the ST1 alligator clip to the battery negative (–) terminal.
- (9) Connect the other cable of ST1 to the battery positive (+) terminal, and activate the airbag module.

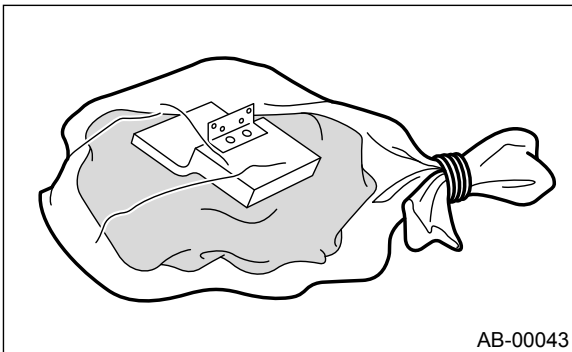


**Caution:**




- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



6. Remove the side airbag module.  [Ref. to AIRBAG SYSTEM>Side Airbag Module>REMOVAL.](#)
7. Place the activated airbag module in a sealed vinyl bag, then discard.



## 5. CURTAIN AIRBAG MODULE

1. Turn the ignition switch to OFF.
2. Disconnect the ground terminal from the battery sensor, and wait for at least 60 seconds before starting work.  [Ref. to REPAIR CONTENTS>NOTE > BATTERY.](#)
3. Remove the trim panel roof assembly.  [Ref. to EXTERIOR/INTERIOR TRIM>Roof Trim>REMOVAL.](#)
4. Disconnect the curtain airbag module connector.  [Ref. to AIRBAG SYSTEM>Airbag Connector>PROCEDURE > KNEE AIRBAG MODULE, CURTAIN AIRBAG MODULE, DRIVER'S AIRBAG MODULE, FRONT SEAT BELT PRETENSIONER & ADAPTIVE FORCE LIMITER \(PASSENGER'S SIDE\).](#)
5. Activate the curtain airbag module.

**Preparation tool:**

ST1: AIRBAG DEPLOYMENT TOOL (98299PA030)

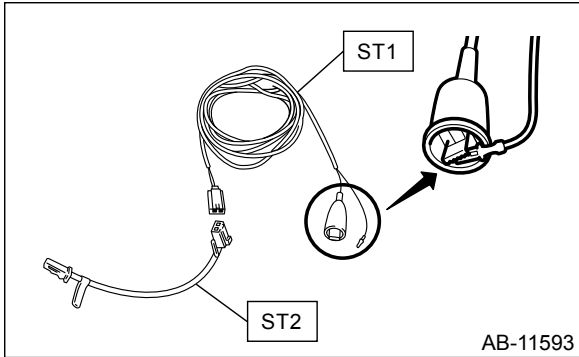
ST2: TEST HARNESS ADAPTER D (98299SA010)

- (1) Short the terminal to the alligator clip furnished as ST1.

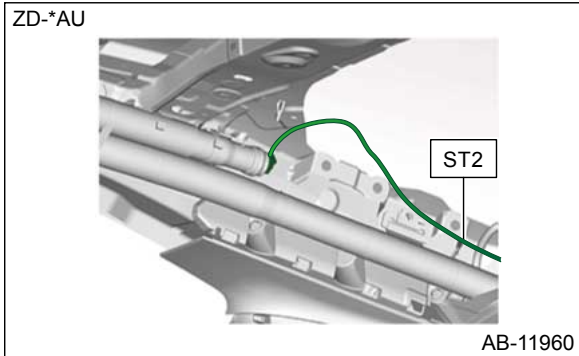
**Caution:**

**ST1 should be kept shorted on the terminals until just before activation of airbag module.**

- (2) Connect the ST1 with ST2.

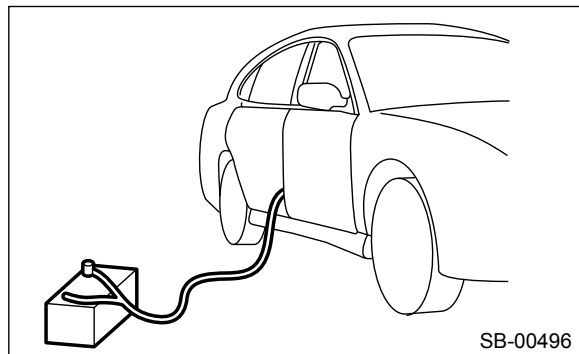


(3) Connect the ST2 to the curtain airbag module.



(4) Make sure there is no one inside the vehicle.

(5) Extend the wiring of ST1 to the limit, and close all the windows completely.



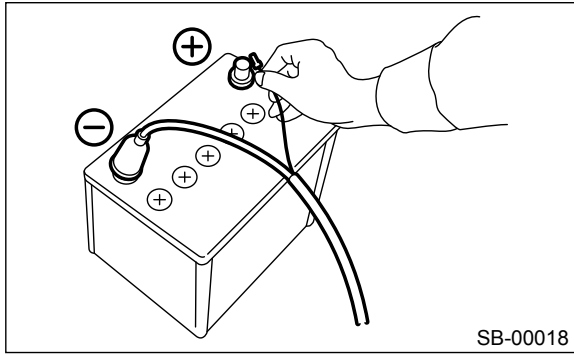
(6) Move the battery at least 5 m (16 ft) from the vehicle, and confirm safety in the area.

(7) Connect the ST1 alligator clip to the battery negative (–) terminal.

(8) Connect the other cable of ST1 to the battery positive (+) terminal, and activate the airbag module.

**Caution:**

- After activation, the airbag module will be extremely hot. Let it cool down for at least 40 minutes in an area with no one around.
- Do not expose the activated airbag module to water.



6. Remove the curtain airbag module.  [Ref. to AIRBAG SYSTEM>Curtain Airbag Module>REMOVAL.](#)
7. Place the activated airbag module in a sealed vinyl bag, then discard.

**Note:**

**When necessary, fold the fabric part of airbag into three or four sections, rope and seal in a vinyl bag.**

